Kodak

Capture Software

User's Guide

A-63054

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1 Introduction

Product description

KODAK Capture Software is a software application that enables all functions of the entire family of *Kodak Digital Science*™ Scanners in both simplex and duplex models.

Features

Some features of Capture Software:

- All functions are performed using this software, no special hardware acceleration is required.
- Fast display in scale to gray of bitonal (i.e., black and white) images.
- Fast deskew, auto-crop, and auto-rotate of color and bitonal images.
- Auto-delete with or without preview.
- Multi-image display (1, 2, 4, and 8 images can be displayed simultaneously).
- Easy-to-use Scanner bar, Button bar, and a Tool bar that provides tools to rescan, insert, delete and move pages. It also provides direct access to threshold and contrast values.
- Programmable Batch Output formats make Capture Software compatible with a range of imaging systems on the market.
- Pre-defined set of image parameter templates.
- Patch code reading for document separation.
- Bar code reading for automatic indexing.

Supported scanners

Capture Software supports the following scanner models:

- *Kodak Digital Science* Scanner 1500
- *Kodak Digital Science* Scanner 2500
- *Kodak Digital Science* Scanner 3500
- *Kodak Digital Science* Scanner 3510
- *Kodak Digital Science* Scanner 3520
- *Kodak Digital Science* Scanner 3590C
- *Kodak Digital Science* Scanner 4500
- *Kodak Digital Science* Scanner 5500
- *Kodak Digital Science* Scanner 7500
- *Kodak Digital Science* Scanner 7520
- *Kodak Digital Science* Scanner 9500
- *Kodak Digital Science* Scanner 9520
- *Kodak Digital Science* Scanner/Microimager 900
- *Kodak Imagelink* 500 Scanner
- *Kodak Imagelink* 900 Scanner
- *Kodak Imagelink* 923 Scanner
- *KODAK* i810 Scanner
- *KODAK* i820 Scanner
- *KODAK* i830 Scanner
- *KODAK* i840 Scanner

System requirements

Following are the minimum software and hardware requirements to run Capture Software.

Software

All systems require Windows 95, Windows 98, Windows ME, Windows NT 4.0, Windows 2000, or Windows XP.

NOTE: The i800 Series Scanners are not supported under Windows 95.

Hardware

All systems require the following:

- IBM PC (or compatible) with a Pentium 400 MHz processor

  Choosing the right processor is important. When the microprocessor is too slow, your PC cannot keep up with the scanner's speed, and overall productivity decreases.

  - For color scanning with the Color Scanner 3590C or Color Scanner 4500, a Pentium III 1 GHz processor is recommended.
  - For color scanning with the i820 Scanner or i840 Scanner, a Pentium IV 1.5 GHz processor is recommended.
  - If you plan to use the deskew, auto-crop and auto-rotate features in Capture Software, the fastest microprocessor available (currently the Pentium IV 1.5 GHz) is recommended.

  In addition, for color scanning, the PC must have MMX processing capability. Furthermore, an Intel-based Pentium processor is recommended.

- 1 GB (< 10msec) hard disk
  - For color scanning with the i820 Scanner or i840 Scanner, two (2) SCSI hard disk drives are recommended: one for the operating system and one for storing the scanned images.
- 128 MB of RAM
  - For color scanning with the i820 Scanner or i840 Scanner, 512 MB of RAM is recommended.
- SCSI controller
  - An Adaptec 2940 controller is recommended. You can also use an Adaptec 1542CP controller. Newer SCSI cards such as the Adaptec 19160 or 29160 may also be used.
  - For the i800 Series Scanners, an Adaptec 29160 SCSI controller or equivalent (Ultra-Wide2 SCSI) is required.
- Parallel/printer port (with DB25 female connector) for hardware key installation.

  USB ports are not supported.

- Display monitor and graphic controller

  Most high-quality displays and graphic controllers are acceptable. The display resolution should be set to at least 800 x 600.

  - For black-and-white scanning, the display monitor should be set to at least 256 Colors. For color scanning with the Kodak color scanners, set the display monitor to True Color (24 bit or 16 million colors).
  - For color scanning with the i820 Scanner and i840 Scanner, an AGP (Advanced Graphics Processor) video card with 32 MB of video RAM is recommended.

Terminology

Before you start, it is important to know how **document**, **page**, **side**, **image**, and other terms are used in this guide.

Application—you can create an unlimited number of applications with Capture Software (the actual number of applications allowed depends on directory limits imposed by the operating system). Applications are distinguished by the batch and document separation methods used (e.g., patch codes, document/image counters, etc.), indexing requirements (e.g., bar code) and Batch Output format requirements. With an application, you can produce batches of an essentially unlimited number of documents (up to 999999999) which are used in conjunction with other digital document management systems and are available in several output formats (e.g., IBS/PC Plus; MO:DCA, Remote Batch Entry [Eastman Imaging for NT]).

Batch—a collection of documents. An application can contain several batches (each up to 999999999 documents; essentially unlimited). Processing a batch means converting the batch to a specific output format (e.g., IBS/PC Plus, single-page TIFF, MO:DCA, Remote Batch Entry [Eastman Imaging for NT]) and sending it to a batch destination folder/subdirectory. Batches can be processed one by one or together.

Document—a **paper** document is a collection of pages; an **electronic** document is a collection of images. A document containing many pages is called a multi-page document (e.g., a file folder or article). A document containing only one page is called a single-page document (e.g., a check). Initially, every document is in paper form and becomes an electronic document after it is scanned; Capture Software gives every document a unique electronic document number. This document number is cross-referenced with index data that can be uploaded to any document management system.

Document index—the document index links search fields (up to 10 search fields) with the document number of each document. The document index can be built manually or automatically with bar codes or default values.

Image—the scanner converts sides to images. Every image belongs to a document with a unique document number. Capture Software gives every image a sequential number inside its document. One document can contain up to 999999999 (i.e., essentially unlimited) images. Capture Software distinguishes between an image coming from the front or rear side of a page. This allows Capture Software to perform side-specific processing (e.g., deletion of blank/rear sides) where appropriate.

Capture Software also distinguishes between color and bitonal (black and white) images and can perform color versus bitonal specific processing.

Example: Document 250 contains two double-sided pages and produces an electronic document number 250, which contains four images (1-4).

Page—a page is always in paper form and is part of a paper document. A page can produce one image (single-sided page), two images (double-sided page), or four images (dual-stream; color and bitonal) after scanning.

Side—one page has two sides, front and rear. With single-sided pages, the rear is blank.

System development

The Capture Software program was developed by Eastman Kodak Company and I.R.I.S. Group, Belgium.

Capture Software is completely developed in 32-bit code to take advantage of the superior performance of fast-single or multi-processor PCs with the NT operating system.

Using this manual

This User's Guide describes the functions and procedures in Capture Software. Chapters 2 and 3 are directed toward individuals who are responsible for scanning, manipulating images within a document and writing to image batches. These individuals must have a working knowledge of IBM (or compatible) PCs and the Windows operating environment. In addition to computer and scanner operations skills, a basic understanding of digital imaging or image scanning is helpful.

Chapters 4 through 11 and the appendices are intended for the system administrator who is responsible for configuring the scanner and Capture Software.

Differences between the Capture Software products specific to the low, mid-, and high volume scanners will be identified throughout the manual where appropriate.

NOTE: Many of the screen examples in this manual were captured using Capture Software with a Scanner 3500. These examples, except where noted, also apply to Capture Software support for the Kodak scanners listed in this chapter.

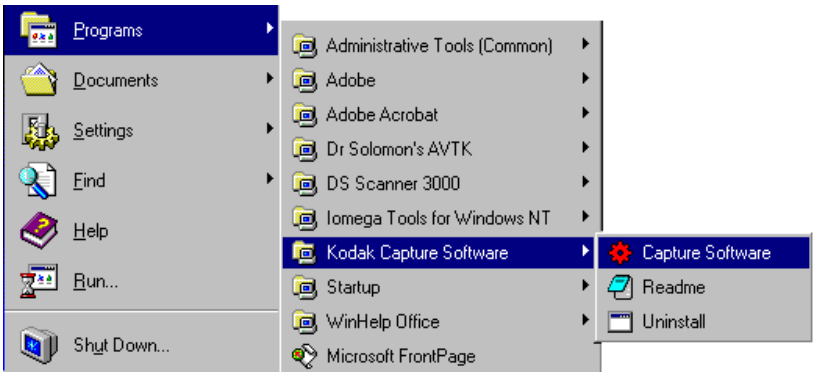
2 Getting Started

Before you begin

Before you begin make sure that the scanner is connected to the system and powered on.

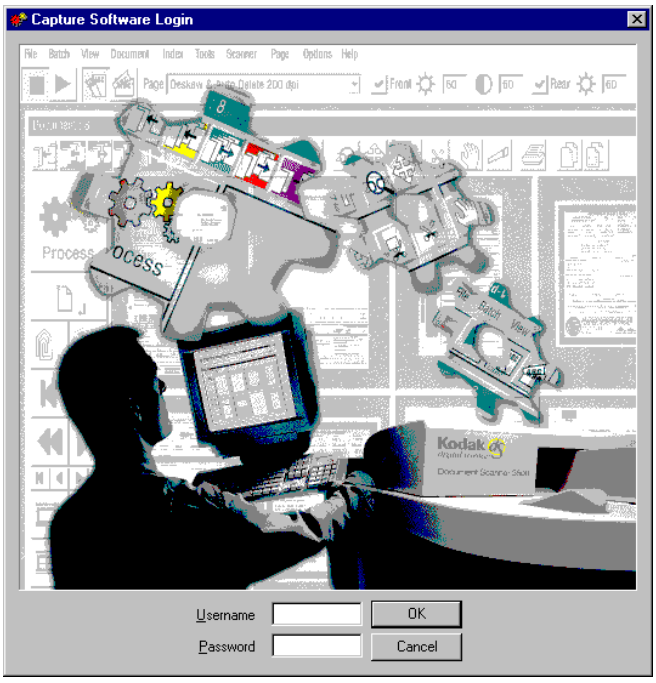
Login procedure

From the Windows desktop, click on **Start** (usually located in the bottom left corner). Move the mouse arrow to **Programs**, then to the **Kodak Capture Software** program icon, and then to the **Capture Software** icon.



The Capture Software window (e.g., Kodak Capture Software 4.0 for Kodak i840 Scanner) appears.

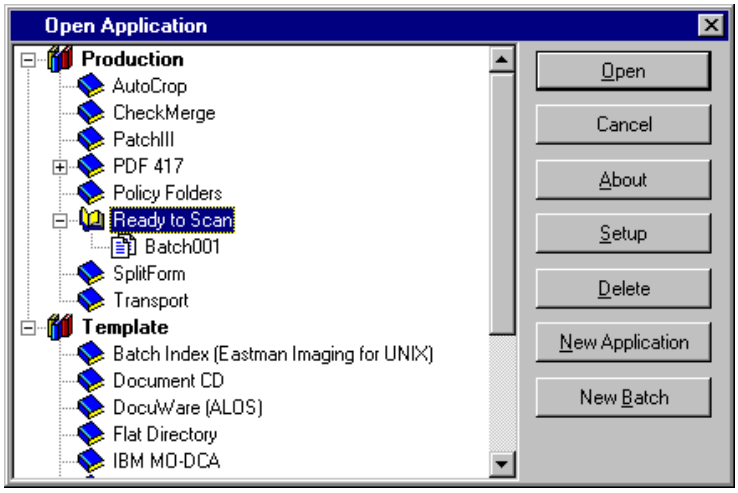
If your system administrator has established user profiles for your Capture Software installation, you may first be required to log in to Capture Software.



Enter your user name and password to complete the login procedure.

Using Capture Software

After you log in, the main Capture Software window appears.



Capture Software provides Production applications and Template applications. For more information on how to set up these templates, see Chapter 4, *Application Setup*.

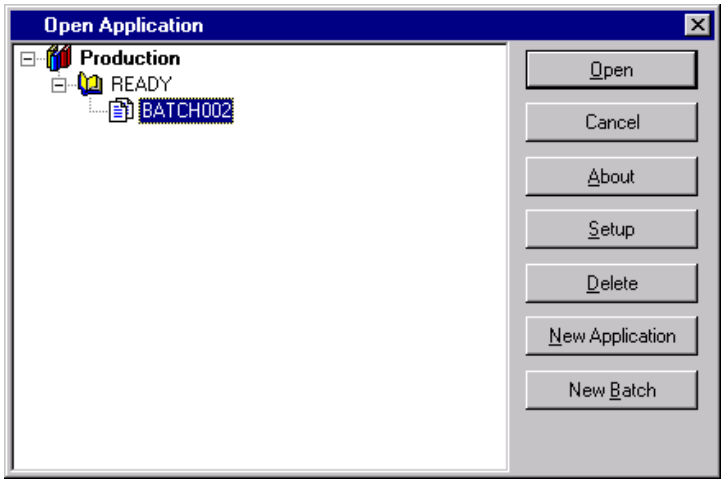
The sections that follow provide procedures for opening and closing an application as well as opening and creating a new batch. Chapter 3, *Working in Capture Software*, provides detailed information on other functions you can access from the Capture Software main window.

Opening an application

To open an application:

1. Select **File>Open Application**.

   The Open Application dialog box appears. You will see only applications for which you have privileges.



2. Double-click on the application you want to open or highlight the application and click **Open**.

   The batches associated with the application appear.

3. Click **Open** to display the batch you selected.

Creating a new batch

To create a new batch, proceed as follows.

From the Open Application window:

1. Select an application where you want the new batch to reside.
2. Click **New Batch**.

   The Create New Batch dialog box appears.

3. Enter a new batch name in the **Batch** name field.

   By default, Capture Software suggests a new batch name based upon the last batch name created for the application (e.g., if the last batch name is Batch002, then the new batch name default will be Batch003).

4. Enter the starting document number.

   By default, Capture Software suggests a starting document number based upon the Application Setup.

5. Click **OK**.

   The main window appears with the batch name you assigned.

   Depending on your User Profile settings and the Application Setup, other dialog boxes may appear before the main Capture Software window appears.

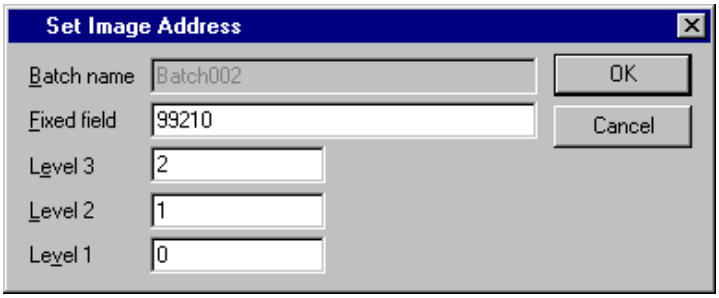
   - For the Scanner 1500 or Scanner 2500 and Scanner 3520DP or Color Scanner 4500DP (when document printing is enabled), and the i800 Series Scanners, the Set Counter dialog box appears.

     Enter a starting counter number.

     - For the Scanner 1500 or Scanner 2500, the number will be downloaded to the scanner and will appear on the scanner's LCD display.
     - For the Scanner 3520DP or Color Scanner 4500DP, the number will be downloaded and printed on the first scanned page when document printing is enabled.
     - For the i800 Series Scanners, the number is downloaded and assigned (and optionally printed) to the first scanned page.

     By default, Capture Software suggests a starting counter based upon the Application Setup.

   - For high volume and i800 Series Scanners, the Set Image Address dialog box appears.

     Enter the starting image address for the batch. It will be downloaded to the attached high volume scanner and will appear in the scanner's LCD display. Only those image address fields (i.e., Fixed field, Level 3, Level 2, and Level 1) that are applicable to the scanner mode being used can be modified. By default, Capture Software suggests a starting image address based upon the Application Setup.

6. Start scanning into the new batch.

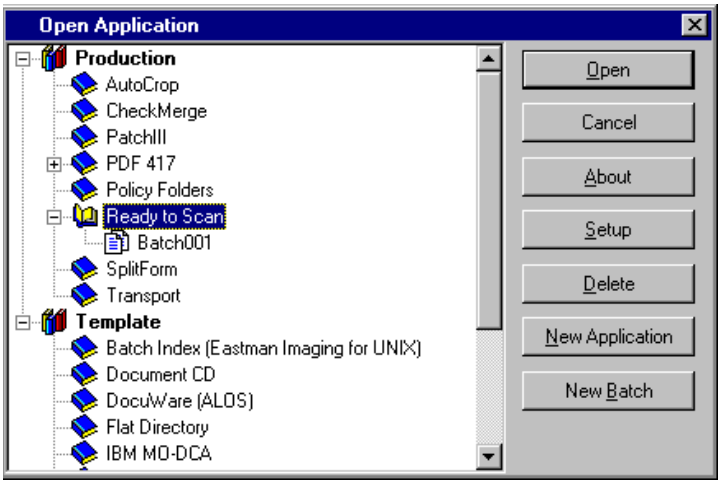
Opening a batch

To open an existing batch, double-click on the batch you want to open or highlight it and click **Open.** The main window appears and shows the existing batch.

If you are scanning in a multiple scanner environment, and the batch has already been opened by another workstation, Capture Software will not allow you to open the batch. Instead, a message similar to the one shown below will appear.

Changing to another application

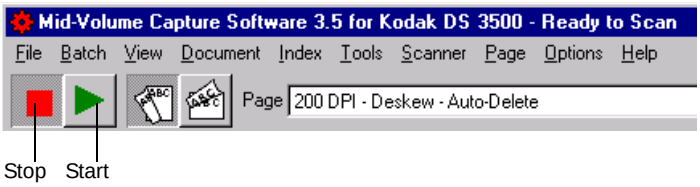
From the main window, select **File>Open Application.** The Open Application dialog box appears.



From this dialog box you can open another application.

Starting and stopping the scanner in Capture Software

To start the scanner in Capture Software:


Mid-Volume Capture Software 3.5 for Kodak DS 3500 - Ready to Scan
File Batch View Document Index Tools Scanner Page Options Help
Page 200 DPI - Deskew - Auto-Delete
Stop
Start

- Click on the green **Start** button (on the Scanner bar in the Capture Software main window) or press **F7**
  - For the Scanner 3500., Scanner 3510., Scanner 3520., Color Scanner 3590C., and Color Scanner 4500., the scanner transport/feeder starts to run.
  - For the Scanner 1500 and Scanner 2500, you first need to place the documents to be scanned in the feeder. The scanner automatically detects the presence of documents in the feeder and the scanner transport/feeder starts to run.

    For the Scanner 1500, you may also place a document on the flatbed. If there are no documents in the feeder and flatbed scanning has been enabled, the scanner will scan the flatbed. When you scan single sheet documents with the flatbed, place the documents in the upper left corner of the flatbed.

  NOTE: Page Setup is configured for auto-cropping and/or deskewing documents, place the document in the middle of the flatbed platen and align the top edge with the top edge of the glass.

  - For the Scanner 5500, Scanner 7520, and Scanner 9520, the Start button enables the scanner. You must press the green button on the scanner's operator panel to start the scanner transport/feeder.
  - For the i800 Series Scanners, the **Auto-Start transport** option in the Scanner Setup dialog determines what the Start button does.

    When Auto-Start transport is enabled, the scanner transport and feeder will automatically run and start scanning.

    When Auto-Start transport is disabled, the Start button enables only the scanner. You must press the green button on the scanner control panel to start the scanner transport/feeder.

  It may take a few seconds to start the scanner the first time because Capture Software is downloading parameters. Successive starts are faster.

To stop the scanner in Capture Software:

- Click the red **Stop** button on the Scanner bar of the Capture Software main window or press **F6**.

Exiting Capture Software

To exit Capture Software, select **File>Exit**. The Capture Software application closes.

Restarting if a transport time-out occurs

The scanner stops automatically when you do not scan documents for a period of time (based upon the time-out period that is set in the Scanner Setup dialog box).

To restart the feeder and transport, click the green **Start** button on the Scanner bar and continue feeding documents. You do not need to restart Capture Software.

Recovering from a paper jam

Under certain conditions, a paper jam can occur. Follow these steps to clear the scanner and restart Capture Software.

1. Clear any paper from the scanner by following the guidelines described in the User's Guide for the scanner you are using.
2. Make sure that the top and/or bottom of the scanner are completely closed, if you had to open them to clear the jam.
3. Wait until the scanner is ready (e.g., on the Scanner 3500, the yellow light is off and the green Ready light has stopped flashing).

NOTE: Check the screen to verify the last complete image you received from the scanner before the paper jam. Restart scanning from that point.

4. Click the green **Start** button on the Scanner bar in the main window.

Calibration

Calibration optimizes the optical system of your scanner in order to achieve the best overall quality of scanned images. Frequent calibration is not needed or recommended. However, if you do need to calibrate the scanner (for example, poor image quality), follow the steps below.

1. Clean both imaging guides properly (e.g., see the *Kodak Digital Science* Scanner 3500 User's Guide for procedures).
2. Obtain a proper calibration target.

   Use a clean, blank sheet of paper with a matte surface (not glossy). Make sure that the target is wider than the documents to be scanned. It is best to use the 12-inch (30.5 cm) square calibration target available from Kodak.

   NOTE: For the i800 Series Scanners only: You must use the special black-and-white calibration target provided with the scanner.

3. Select **Scanner>Image Calibration** in the Capture Software main window.

NOTES: For the Scanner 1500 and Scanner 2500, scanner calibration is not necessary and therefore is not available through Capture Software.

For the Scanner 5500, the Scanner 7520, and the Scanner 9520, calibration is available only through the scanner operator panel and is required every time the scanner is powered up.

For the Color Scanner 3590C and the Color Scanner 4500, select **Scanner>Color Calibration** for color image quality issues.

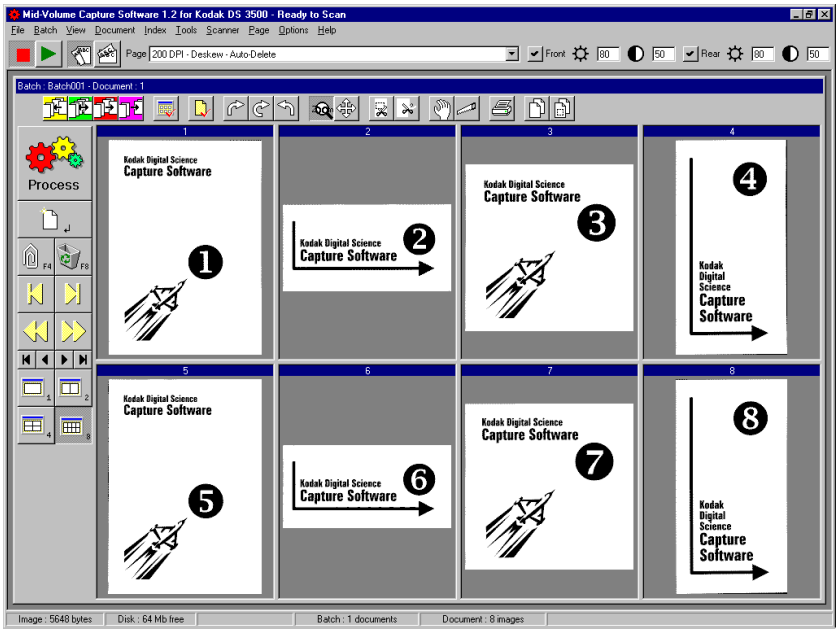
3 Working in Capture Software

The main Capture Software window

This chapter describes how to access and use the various functions of Capture Software through the tools and menus of the main window.

The main window contains the following elements:

- Program title bar
- Menu bar
- Scanner bar
- Document title bar
- Tool bar
- Image display
- Button bar
- Status bar

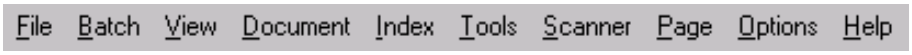

Mid-Volume Capture Software 1.2 for Kodak DS 3500 - Ready to Scan
File Batch View Document Index Tools Scanner Page Options Help
Page 200 DPI - Deskew - Auto-Delete
Front
Rear
Batch : Batch001 - Document : 1
Process
Kodak Digital Science
Capture Software
Image : 5648 bytes
Disk : 64 Mb free
Batch : 1 documents
Document : 8 images

Program title bar

The Program title bar provides the version number of Capture Software that you are running and the name of the selected scanner. The application name is also included on the Program title bar.

Menu bar

The Menu bar provides the following menu options:



The following summarizes the functions associated with each Capture Software menu:

File—allows you to open, close, or delete an existing Production or Template application. In addition, you can create and set up a new application.

Batch—allows you to open an existing batch or create a new batch; and process current or all available batches.

View—allows you to display 1, 2, 4, or 8 images, fit images to the display windows regardless of its original size and allows you to enlarge or reduce the images by a fixed percentage.

Document—provides many options of navigating through the displayed images of a document and the documents within a batch. You can also create and delete documents and attach new images to an existing document.

Index—allows you to edit batch, document, and page index fields.

Tools—provides a variety of methods which allows you to manipulate displayed images.

Scanner—allows you to set up a scanner and to start, stop and calibrate the scanner.

Page—allows you to set up specific page properties, duplex scanning mode (classic or calendar), and image setup options.

Options—provides access to hiding or displaying the Tool bar, Status bar, Button bar, and Scanner bar.

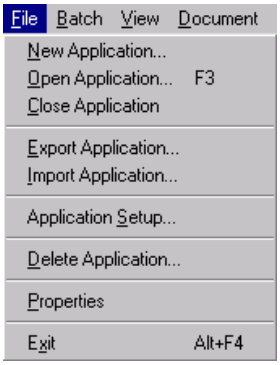
Help—provides version number information about the current installation of Capture Software.

The following sections provide information on each of these menu options. In many cases, you can use a keyboard, Tool bar, Scanner bar, or Button bar shortcut instead of selecting an option from the menu.

Button bar, Scanner bar, and Tool bar summaries are described later in this chapter. Procedures on how to use a menu option are covered in the following menu descriptions.

File menu

The File menu allows you to open, close, import, export, or delete an existing Production or Template application. In addition, you can create and set up a new application.



New Application—accesses the Create New Application dialog box which allows you to create a new application based upon an existing application.

Open Application—allows you to open an existing application. Keyboard shortcut: **F3**

Close Application—closes the current application and open batch.

Import/Export Application—allows you to export (or save) application settings from one Capture Software installation and import (or load) those settings to another Capture Software installation. You can access these functions by running the Capture Software Utilities program located in the **Utilities** directory on the Capture Software CD.

Application Setup—accesses the Application Setup dialog box. More information about setting up applications can be found in Chapter 4, *Application Setup.*

Delete Application—when selected, deletes the current application. You cannot delete an application that contains batches.

Properties—automatically closes the current application and accesses the Capture Software Program Properties. More information about Program Properties can be found in Chapter 11, *System Administration — Program Properties.*

Exit—closes Capture Software. Keyboard shortcut: **Alt+F4**

Open Application dialog box

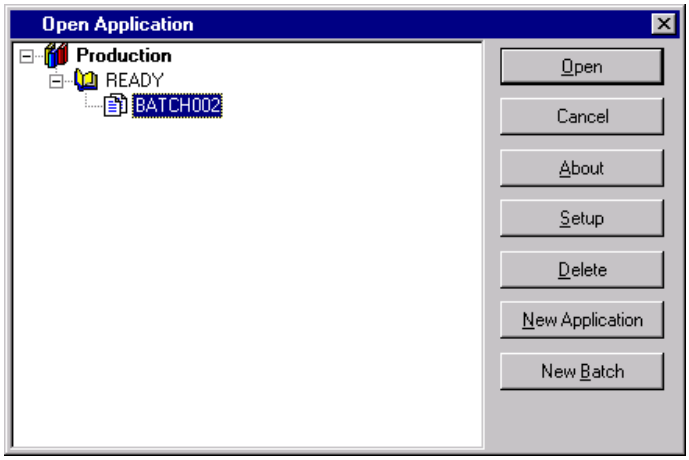
The Open Application dialog box allows you to:

- Open an existing application.
- Close the Open Application dialog box.
- Access online help (i.e., a Readme text file) for selected applications.
- Set up a new application—see Chapter 4, *Application Setup*, for more information.
- Delete an existing application.
- Create a new batch—see the section entitled “The Batch menu” later in this chapter for more information.

Opening an application

1. Select **File>Open Application**.

   The Open Application dialog box appears.



2. Select the application you want to open.

   The batches associated with the application will be displayed.

3. Click **Open** to show the batch you selected in the main Capture Software window.

Closing an application

- Select **File>Close Application** from the main Capture Software window.

Deleting an application

1. Select the application you want to delete.

   The batches associated with the application will be displayed.

   NOTE: An application cannot be deleted unless all batches are processed or deleted.

2. Click **Delete**.

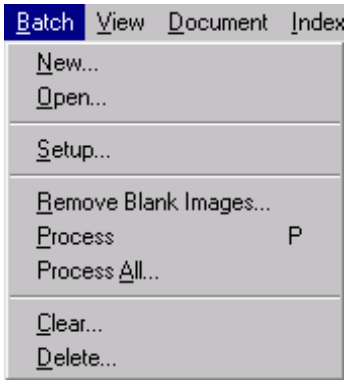
Accessing online application information

1. Select the application you want information about.
2. Click **About**.

   If available, information about the application will appear in a text window.

Batch menu

The Batch menu allows you to open, create, set up and delete batches. You can also process a current batch or all available batches.



New—allows you to create a new batch.

Open—shows a list of available batches for a selected application. Opening a batch from the list automatically closes the current batch.

Setup—allows you to change the name of a batch. When selected, the Batch Setup dialog box will appear, which allows you to enter a new Batch name. After you have entered a new batch name, click **OK**.

Remove Blank Images—allows you to remove blank rear or front sides produced by the scanner.

Process—processes the current batch according to the selected Batch Output Format. Keyboard shortcut: **P**

Process All—shows all available batches for the current application; you can select one or more batches to process unattended.

Clear—erases all images in a batch, but keeps the batch subdirectory structure intact.

Delete—erases both the images and batch subdirectory structure of the selected batch.

Creating a new batch

When you create a new batch, Capture Software will not disable the scanner.

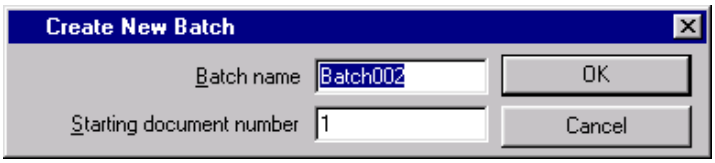
From the Open Application window:

1. Select an application where you want the new batch to reside.
2. Click **New Batch**.

From the main Capture Software window:

3. Select **Batch>New**.

   The Create New Batch dialog box appears.



4. Enter a new batch name in the **Batch** name field.

   By default, Capture Software suggests a new batch name based upon the last batch name created for the application (e.g., If the last batch name is Batch002, then the new batch name default will be Batch003).

5. Enter the starting document number.

   By default, Capture Software suggests a starting document number based upon the Application Setup.

6. Click **OK**.

   The main window appears with the batch name you assigned.

Depending on your User Profile settings and the Application Setup, other dialog boxes may appear before the main Capture Software window appears.

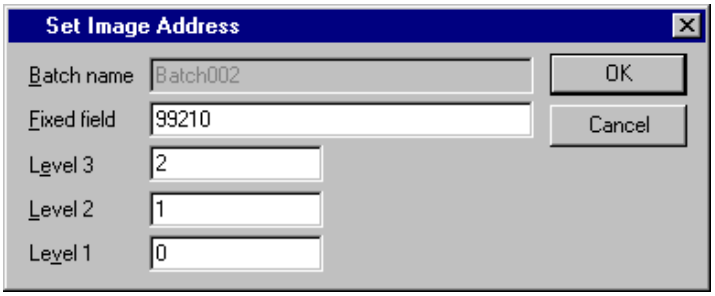
- For the Scanner 1500 or Scanner 2500 and Scanner 3520DP or Color Scanner 4500DP (when document printing is enabled), and the i800 Series Scanners, the Set Counter dialog box appears.

  Enter a starting counter number.

  - For the Scanner 1500 or Scanner 2500, the number is downloaded to the scanner and will appear on the scanner's LCD display.
  - For the Scanner 3520DP or Color Scanner 4500DP, the number is downloaded and printed on the first scanned page when document printing is enabled.
  - For the i800 Series Scanners, the number is downloaded and assigned (and optionally printed) to the first scanned page.

  By default, Capture Software suggests a starting counter based upon the Application Setup.

- For high volume and i800 Series Scanners, the Set Image Address dialog box appears.



  Enter the starting image address for the batch. It will be downloaded to the attached high volume scanner and will appear in the scanner's LCD display. Only those image address fields (i.e., Fixed field, Level 3, Level 2, and Level 1) that are applicable to the scanner mode being used can be modified. By default, Capture Software suggests a starting image address based upon the Application Setup.

7. Start scanning into the new batch.

Opening a batch

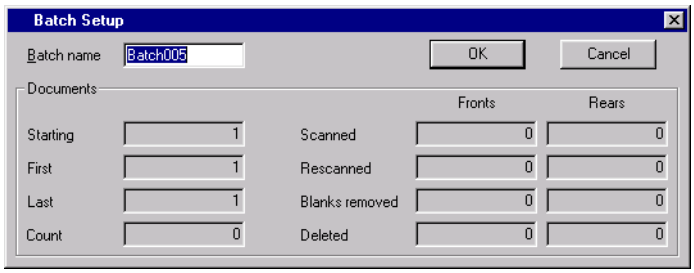
To open an existing batch, select **Batch>Open**. The Open Application dialog box appears. The batch that was previously opened is highlighted. You can now open any existing batch in any production application.

Setting up a batch

From the main window:

1. Select **Batch>Setup**.

   The Batch Setup dialog box appears.



2. If desired, enter a new name for the current batch.
3. Click **OK**.

   The new batch name is reflected in the list of batches for the selected application.

   The main Capture Software window appears and you can continue scanning.

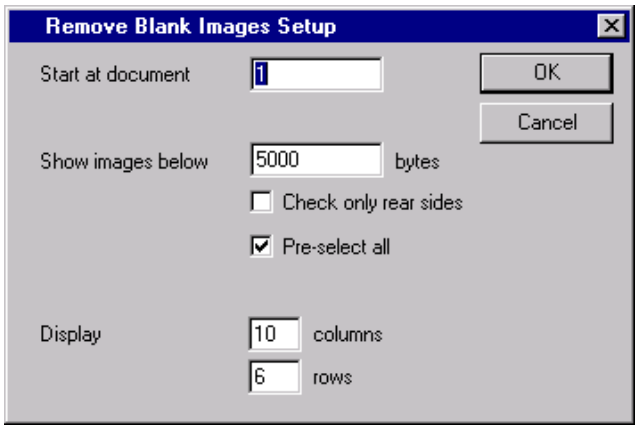
Removing blank images

This option allows you to remove the blank rear or front sides produced by the scanner. If you use this option, you will be asked to verify the batch delete of the blank images.

From the main window:

1. Select **Batch>Remove Blank Images**.

   The Remove Blank Images Setup dialog box appears.



2. Enter the document in the batch where you want verification to begin. The default is 1.
3. Define the byte size threshold of the images to be verified.

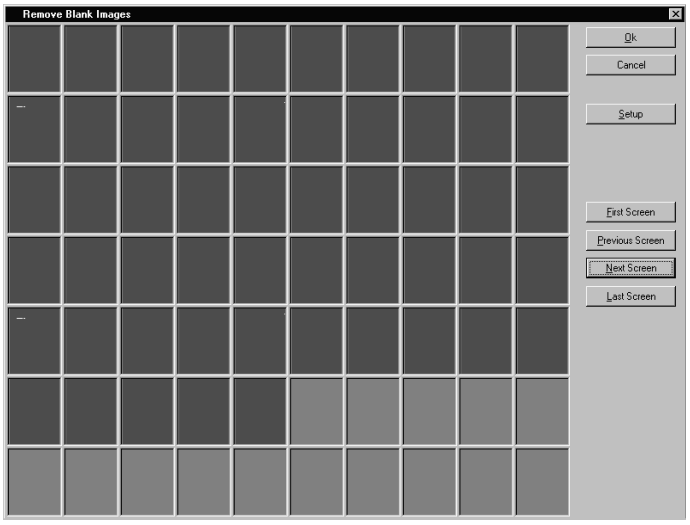
   NOTE: A good setting for typical business documents is 5000 bytes in 200 dpi.

4. If you want to remove only the blank rear sides of the images in a batch, click the **Check only rear sides** check box.
5. If you do not want all images pre-selected for deletion, uncheck the **Pre-select all** check box to disable this option.
6. Define the number of **columns** and **rows** you want to display.

   On a 1024 x 768 SVGA screen, a matrix of 14 x 7 allows you to check 98 images per screen for images containing valid data.

7. Click **OK** to accept the values you entered.

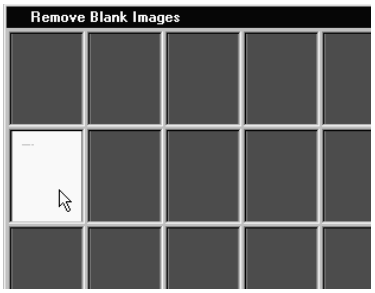
After a batch has been processed, Capture Software displays all rear images below the specified number of bytes (e.g., 5000 bytes). These images are displayed in a red highlight color (unless you disabled the **Pre-select all** option). All colored images (which appear black here, but red on your screen) are considered blank and ready for mass deletion.



To delete the blank images:

1. By default, all images are selected for deletion. Select any images you do not want to delete by clicking them individually.

   The color changes to white.



NOTE: The **First Screen, Previous Screen, Next Screen**, and **Last Screen** buttons help you navigate through all the blank images in the batch.

2. Click **OK**.

   The message *Remove all selected images?* appears.

3. Select **Yes** to confirm the deletion of images.

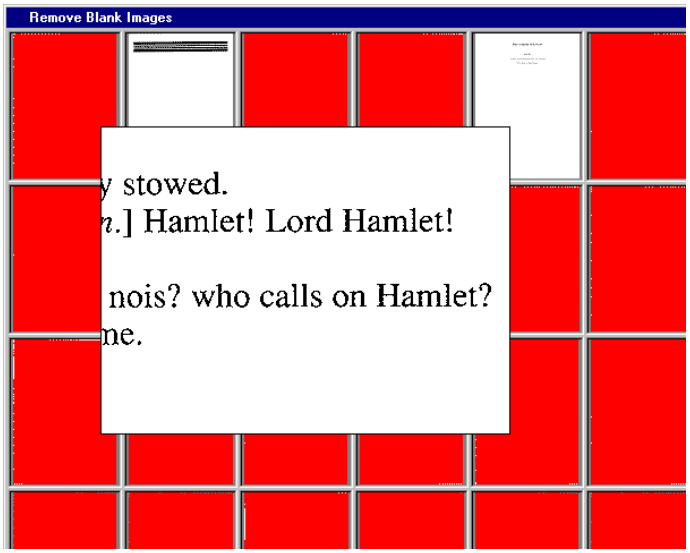
   Capture Software removes the images and repaginates the documents. The available batch and hard disk capacity are also updated.

Changing the Remove Blank Images setup

You can change the Remove Blank Images setup by selecting **Setup** on the Remove Blank Images dialog box. The Remove Blank Image Setup dialog box appears and you can change the parameters as required.

Displaying a detailed view of an image

You can display a more detailed view of an image by right-clicking on the thumbnail of the image. The image will be magnified to 100%. By moving the magnifying glass over the thumbnail, you can verify whether or not the image should be deleted.



Processing batches

You can process one batch at a time or process all available batches. When you process a batch, the batch is processed according to the selected Batch Output Format in Application Setup (Output tab). This typically results in the batch being copied to an output subdirectory path.

Processing the current batch

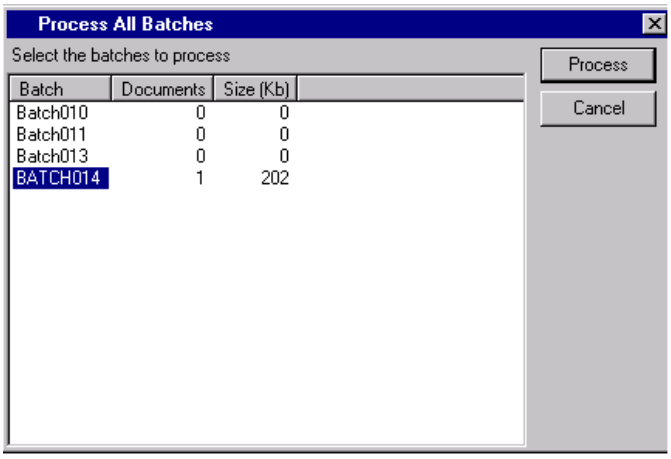
- Select **Batch>Process.** A progress meter will be displayed while the batch is processing.

Processing all available batches

1. Select **Batch>Process All**.

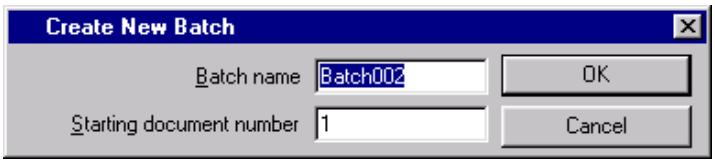
   The Process All Batches dialog box appears. This dialog box allows you to select one or more batches to be processed.

2. Click **Process**.



   Each selected batch is processed in the order displayed.

3. After processing, the Create New Batch dialog box appears.



   By default, the name of the new batch is incremented by one. It is suggested that you increment the previous batch name by one.

4. Click **OK** to continue scanning into the new batch.

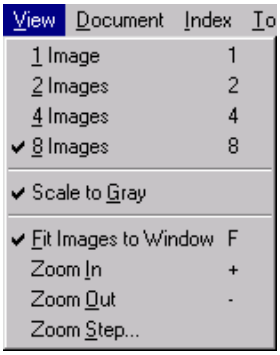
Clearing and deleting batches

The **Clear** and **Delete** options are available from the Batch menu. When you clear a batch, Capture Software deletes all images but keeps the batch subdirectory name and all subdirectories that have already been created.

When you delete a batch, Capture Software deletes the entire batch subdirectory structure and removes the batch name from the list of batches in the selected application.

View menu

The View menu provides options which allow you to alter the way you view images in the Image Display area.



1 Image—allows you to display one image in the Image Display area. Keyboard shortcut: **1**

2 Images—allows you to display two images in the Image Display area. Keyboard shortcut: **2**

4 Images—allows you to display four images in the Image Display area. Keyboard shortcut: **4**

8 Images—allows you to display eight images in the Image Display area. Keyboard shortcut: **8**

Scale to Gray—toggles the scale to gray mode on and off. Selecting **Scale to Gray** will increase the quality of the images displayed on lower resolution monitors. This option has no effect on the image files

Fit Images to Window—fits each image to the Image Display window regardless of its original size. Keyboard shortcut: **F**

Zoom In—enlarges an image by a fixed percentage according to the Zoom Step setting. Keyboard shortcut: **+**

Zoom Out—reduces an image by a fixed percentage according to the Zoom Step setting. Keyboard shortcut: **-**

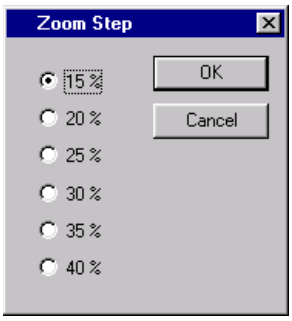
Zoom Step—accesses the Zoom Step dialog box which allows you to select a percentage to scale. Options range from 15 to 40% in increments of 5%.

Changing zoom settings

To change the settings in the Zoom Step dialog box, proceed as follows.

1. Select **View>Zoom Step**.

   The Zoom Step dialog box appears.

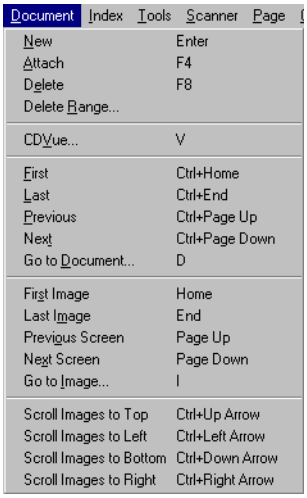


2. Click on the setting you desire.
3. Click **OK**.

   The zoom setting will be reduced or enlarged based upon the percentage you selected.

Document menu

Following is a summary of what options are provided from the Document menu.



New—allows you to start a new document with a document number equal to the last document number +1. Keyboard shortcut: **Enter**

In Mid-Volume Capture Software, selecting this option also enables the scanner and starts the scanner transport/feeder.

Attach—appends the next scanned page to the current document. Keyboard shortcut: **F4**

Delete—deletes the current document. Keyboard shortcut: **F8**

Delete Range—accesses the Delete Documents dialog box which allows you to delete a range of documents in the batch.

CDVue—this option is only available when you use the IBS/ Document CD Native Scan structure. When this option is available, you can search and view documents in the current batch with the CDVue application. This is useful for testing the Document Index data that has been generated for the batch. Keyboard shortcut: **V**

First—select this option to go to the first document in a batch. Keyboard shortcut: **Ctrl+Home**

Last—select this option to go to the last document in a batch. Keyboard shortcut: **Ctrl+End**

Previous—moves to the previous document number containing images. Keyboard shortcut: **Ctrl+Page Up**

Next—moves to the next document number containing images. Keyboard shortcut: **Ctrl+Page Down**

Go to Document—accesses the Go to Document dialog box which allows you to enter the number of the document that you want to display. You can also go to document numbers that do not contain any images. Keyboard shortcut: **D**

First Image—allows you to go to the first image of a document. Keyboard shortcut: **Home**

Last Image—allows you to go to the last image of a document. Keyboard shortcut: **End**

Previous Screen—allows you to go to the previous screen. Keyboard shortcut: **Page Up**

Next Screen—allows you to go to the next screen. Keyboard shortcut: **Page Down**

Go to Image—accesses the Go to Image dialog box which allows you to enter the number of the image you want to display first in the Image Display area. Keyboard shortcut: **I**

Scroll Images to Top—allows you to scroll all of the images in the Image Display area to the top of the images. Keyboard shortcut: **Ctrl+Up Arrow**

Scroll Images to Left—allows you to scroll all of the images in the Image Display area to the left of the images. Keyboard shortcut: **Ctrl+Left Arrow**

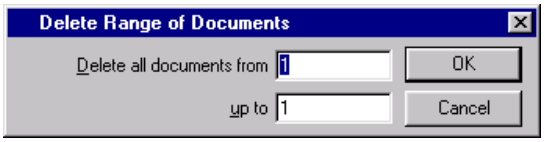
Scroll Images to Bottom—allows you to scroll all of the images in the Image Display area to the bottom of the images. Keyboard shortcut: **Ctrl+Down Arrow**

Scroll Images to Right—allows you to scroll all of the images in the Image Display area to the right of the images. Keyboard shortcut: **Ctrl+Right Arrow**

Deleting a range of pages

1. Select **Document>Delete Range**.

   The Delete Documents dialog box appears.



2. Enter the beginning number of the document you want to delete in the **Delete all documents from** field.
3. Enter the ending number of the group of documents you want to delete in the **up to** field.
4. Click **OK** when finished.

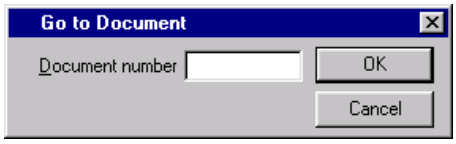
Moving to a specific document or image

The Go to Document and Go to Images options are available when you want to move directly to a specific document or image.

To go to a specific document:

1. Select **Document>Go to Document**.

   The Go to Document dialog box appears.

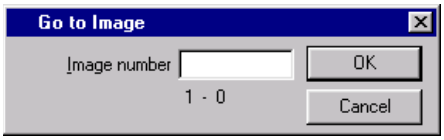


2. Enter the document number you want to go to.
3. Click **OK**.

To go to a specific image:

1. Select **Document>Go to Image**.

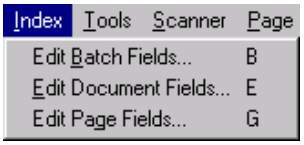
   The Go to Image dialog box appears.



2. Enter the image number you want to go to.
3. Click **OK**.

Index menu

The Index menu provides access to the index fields at batch, document, and page levels. Following is a summary of each option.



Edit Batch Fields—when selected, the Batch Index Fields dialog box appears.

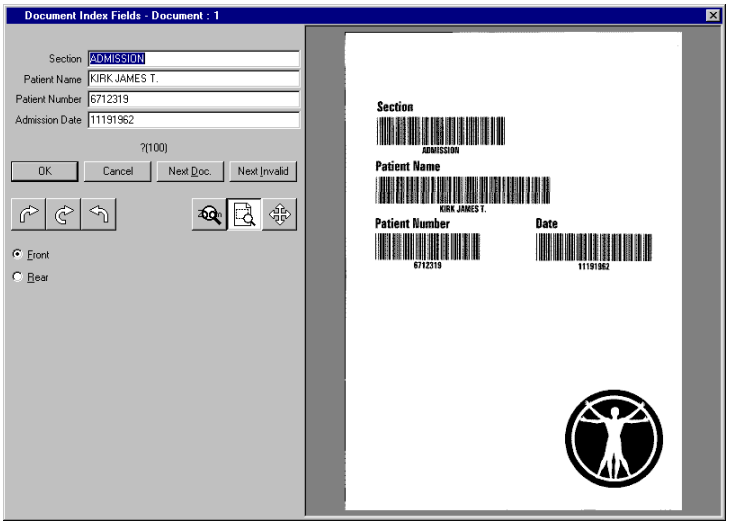
Edit Document Fields—when selected, the Document Index Fields dialog box appears.

Edit Page Fields—when selected, the Page Index Fields dialog box appears. This function is not yet available, as page level index fields are not available.

To enter or change a batch or document index field:

1. Choose **Edit Batch Fields** or **Edit Document Fields**, depending upon which fields you would like to edit.

   The appropriate dialog box appears, containing an entry and value, if one exists, for each index field defined during Application setup. In addition, the first page of the batch (for batch index fields) or document (for document index fields) is displayed next to the index field entries.



2. Change any information in the fields as required.

   As you tab from field to field, the audit rules for the field are displayed (e.g., A(4) to enter up to four alphabetic characters).

3. Click **OK** to finish editing the current document/batch index fields.

   The Image Display area of the Capture Software main window appears.

NOTE: Select **Cancel** to ignore any changes that were made. The Image Display area of the Capture Software main window appears.

For document index fields, two additional options are available:

- Select **Next Doc** to edit the index fields for the next document in a batch. This option is useful for manual data entry indexing after scanning has been completed.
- Select **Next Invalid** to go to the next document (or next field in the current document) that has an invalid field value. This option is useful for index correction after scanning has been completed.

NOTE: The last button used (**Next Doc** or **Next Invalid**) remains active, allowing you to perform post-scanning indexing functions quickly using the Enter key without using the mouse.

Image Display options

When editing index fields, several image display options are available. Image display options are accessible from the Image Display Tool bar and an Image Display context-sensitive menu.

Image Display Tool bar

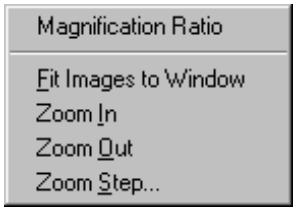
From left to right:

- The **rotation buttons** rotate the displayed image 90^{o}, 180^{o}, or 270^{o} clockwise. These buttons are useful to orient the image in the direction of the index data (e.g., bar code data) that needs to be entered/corrected.

  IMPORTANT: When an image is rotated and the index field changes are saved (i.e., not canceled), any rotation of the image is also saved.

- The **Zoom image with magnifying glass** tool is the same as the tool on the Capture Software main window.
- The **Zoom image on rectangle** tool allows you to draw a rectangle around a portion of the image that you want zoomed for display when editing index fields. This zoom setting is saved per index field. As a result, you can define a zoom zone for each index field and the image display automatically zooms to the appropriate part of the image when that field is edited.
- The **Scroll image** tool is the same as the tool on the Capture Software main window. The results of scrolling are saved per index field.
- The **Front** and **Rear** radio buttons control which side of a duplex page is displayed when editing index fields. The front/rear setting is saved per index field. As a result, when tabbing between index fields, the image display can automatically switch from front to rear and back again.

Image Display context-sensitive menu



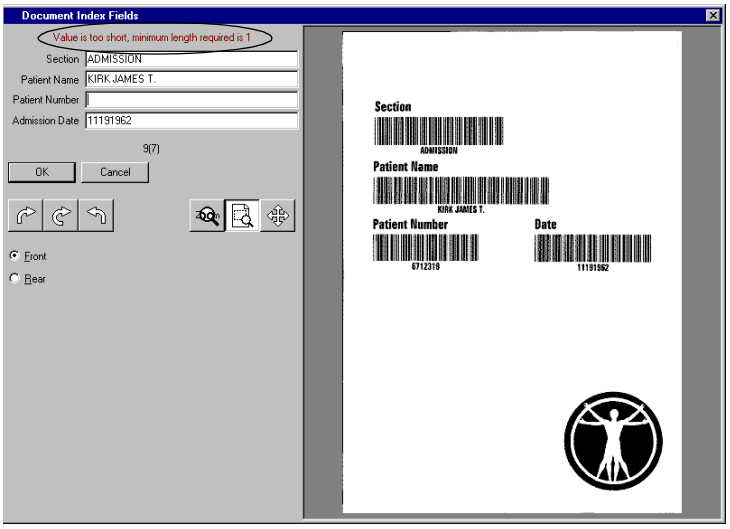
These menu options function the same as they do on the Capture Software main window image context-sensitive menu. Any adjustments to image display by zooming in/out or fit image to window are saved **per index field**.

NOTES: All adjustments to image display from the tool bar or the context-sensitive menu are automatically saved, per Capture Software application, when leaving the Batch/Document Index Fields dialog box. As a result, the next time fields are edited, the image display settings used previously remain in effect.

The Batch and Document Index Fields dialog boxes can be resized and moved to a different position on the screen. When leaving the dialog box, the size and on-screen positions are automatically saved. As a result, the next time index fields are edited, the location and size of the dialog box used previously remain in effect.

Index correction during scanning

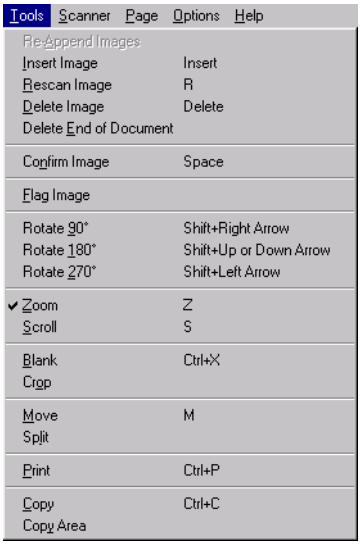
When index fields are defined with the **Check Field During Scanning** option enabled, each index field value is audited against the input mask and minimum length requirements for the field. If an index field audit fails, scanning will be interrupted and you will be prompted to correct the index data before scanning can be resumed.



If the **Stop Scanner on Error** option is enabled for the application, the scanner must be manually restarted (green button on the Scanner bar) to resume scanning. Otherwise, scanning will automatically resume when the index field is corrected.

Tools menu

Following is a brief summary of each option on the Tools menu. The Tool bar also provides most of these options. See the section entitled “Tool bar” in this chapter for an explanation of the Tool bar buttons.



Re-Append Images—this option is available only when the Insert Image tool is used. Use this option after **Insert** is completed to reattach the ending images of a document with the inserted images.

Insert Image—allows you to insert additional pages into a scanned document. Keyboard shortcut: **Insert**

Rescan Image—allows you to rescan a selected image. Keyboard shortcut: **R**

Delete Image—allows you to delete one or more images selected inside a document. For example, blank images can be deleted from a double-sided document; Capture Software will renumber all remaining images after the selected images are deleted. Keyboard shortcut: **Delete**

Delete End of Document—allows you to delete the selected image and all subsequent images of a document. ***Images are removed from your hard disk. You cannot undo this function.***

Confirm Image—allows you to confirm unchangeable actions (no undo). Actions you cannot undo, and therefore must confirm, are: deleting and cropping images, blanking parts of one or more images, and copying parts of an image to the Windows clipboard. Keyboard shortcut: **Space**

Flag Image—allows you to indicate that something special needs to be done with a particular image. This function is not yet available.

Rotate 90°—allows you to rotate an image 90 degrees to the right. Keyboard shortcut: **Shift+Right Arrow**

Rotate 180°—allows you to rotate an image 180 degrees. Keyboard shortcut: **Shift+Up or Down Arrow**

Rotate 270°—allows you to rotate an image 270 degrees to the right (or 90 degrees to the left). Keyboard shortcut: **Shift+Left Arrow**

Zoom—allows you to enlarge a portion of an image. When you select **Zoom**, a magnifying glass will be displayed. You can enlarge any area where you place the magnifying glass. You can also select other magnification ratios (100, 150, 200, or 250%) by right-clicking on the image and selecting **Magnification Ratio** from the context-sensitive menu. The Magnify tool does not slide between images. Keyboard shortcut: **Z**

Scroll—use the Scroll option to scroll in any direction within an image that is partially hidden. This is useful when a single image is too large to be displayed fully on the screen. Keyboard shortcut: **S**

Blank—use the Blank tool to select an area of an image that you want to remove from the image. Keyboard shortcut: **Ctrl+X**

Crop—allows you to draw a rectangle around a portion of an image retaining only the part of the image you want.

Move—allows you to move a page (both front and rear images) from one location to another location within the document. To move an image, right-click on the image and select **Move image** on the context-sensitive menu to change the move tool setting. Keyboard shortcut: **M**

Split—allows you to split a document into two documents.

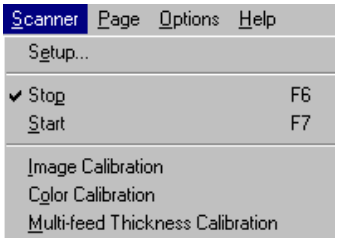
Print—allows you to print a document or specific images within a document. Only black-and-white images can be printed at this time. Keyboard shortcut: **Ctrl+P**

Copy—allows you to copy an image (in its highest resolution) to the Windows clipboard. Keyboard shortcut: **Ctrl+C**

Copy Area—allows you to copy a specific area of an image to the Windows clipboard.

Scanner menu

The Scanner menu provides the following functions:



Setup—accesses the Setup dialog box specific to the scanner you selected. From this dialog box you can set the SCSI parameters and other specific parameters for the selected scanner.

Stop—clears and stops the transport and disables the scanner. Keyboard shortcut: **F6**

Start—enables the scanner and starts the transport. Keyboard shortcut: **F7**

Image Calibration—allows you to calibrate the scanner. You may need to calibrate the scanner if you are experiencing problems with image quality.

NOTE: This function is only available in Capture Software for the Scanner 3500, Scanner 3510, Scanner 3520, Color Scanner 3590C, Color Scanner 4500, and all i800 Series Scanners.

Color Calibration—allows you to calibrate the Color Scanner 3590C or Color Scanner 4500 for color image quality.

NOTE: This function is only available in Capture Software for the Color Scanner 3590C or Color Scanner 4500.

Multi-feed Thickness Calibration—allows you to calibrate the scanner for multi-feed document detection based on the thickness of a scanned sheet of paper. When prompted, feed a sample sheet into the scanner. When Multi-feed Thickness Detection is actuated after calibration, the scanner warns you with an audible alarm whenever a scanned sheet of paper is detected to be thicker (commonly caused by a multi-feed) than the sheet used for calibration. See Chapter 9, *Page Setup*, for information about actuating Multi-feed Thickness Detection.

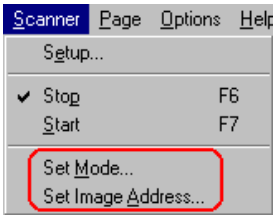
NOTE: This function is only available in Capture Software for the Scanner 3500, Scanner 3510, Scanner 3520, Color Scanner 3590C, or Color Scanner 4500.

Set Counter—accesses the Set Counter dialog box which allows you to change the sequential counter value assigned (and optionally printed) to the next page scanned. On the Scanner 1500 and Scanner 2500, the counter value that is entered will appear on the LCD display.

NOTE: This function is only available in Capture Software for the Scanner 1500, Scanner 2500, Scanner 3520DP, Color Scanner 4500DP, and all i800 Series Scanners.

Additional menu options for high volume scanners

For high volume scanners, such as Scanner 5500, Scanner 7520, Scanner 9520, or the i800 Series Scanners, two additional menu options can be selected.



Set Mode—accesses the Set Mode dialog box which allows you to change the scanning mode on the high volume scanner. If the mode selected is a linked mode to the current mode (as defined by the scanner), then the image address will not change. However, if the mode selected is not linked to the current scanner, then the image address will change to the last address used for the mode.

NOTES: It is recommended that you always change the mode within Capture Software, as opposed to changing the mode at the scanner keypad (i.e., using the F01 function). If you change the mode at the scanner keypad, you may not be able to restart the scanner in Capture Software due to a mismatch in the expected Image Address format between the scanner and Capture Software.,

Set Mode is not available for the i800 Series Scanners which only support one operative mode configurable in Application Setup.

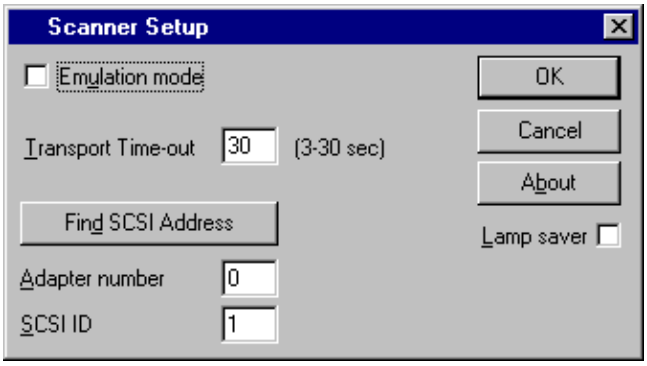
Set Image Address—accesses the Set Image Address dialog box which allows you to change the image address that is displayed on the high volume scanner (and optionally printed). Only those image address fields (e.g., Fixed field, Level 2) that are applicable to the scanner mode being used can be modified. By default, Capture Software suggests an image address based upon the Application Setup that resynchronizes the current Capture Software document number with the scanner image address.

Setting up the scanner

You can set up or change the parameters of the scanner you will be using by accessing the Setup dialog box.

1. Select **Scanner>Setup**.

   The Scanner Setup dialog box appears.



2. Enter a **Transport Time-out** value, if desired.

   Valid values for the time-out period depend upon the attached scanner. For the Scanner 3500, Scanner 3510, Scanner 3520, Color Scanner 3590C, and Color Scanner 4500, valid values are 3 to 30 seconds.

   The Transport Time-out is the number of seconds that the scanner transport remains enabled when not actively scanning. When a time-out occurs, the scanner transport stops and is disabled.

3. Enable or disable the **Lamp saver** setting.

   A check in the box indicates that **Lamp saver** is enabled; no check indicates that it is disabled. In order for a change in the setting to take effect, you must scan at least one page. When **Lamp saver** is enabled, the lamps in the scanner automatically shut off after 10 minutes of scanner inactivity. When this feature is disabled, the lamps in the scanner remain on until the scanner is powered off.

NOTE: Transport Timeout and Lamp saver are only available in Capture Software for the Scanner 3500, Scanner 3510, Scanner 3520, Color Scanner 3590C, and Color Scanner 4500.

Upon startup, Capture Software automatically locates the scanner and fills in the adapter number and SCSI ID of the scanner. If the scanner was not ready or powered up when Capture Software was started, press the **Find SCSI Address** button to locate the scanner and fill in the fields if the scanner is available. To key in the adapter number or SCSI ID manually, the following applies:

- If the scanning PC contains more than one SCSI adapter, enter the appropriate adapter number in the Adapter number field, otherwise, leave the adapter number to its default value of 0.
- Enter the SCSI ID number of the attached scanner, usually a number from 1 to 7.

  For the Scanner 1500 and Scanner 2500, the SCSI ID number is visible in the LCD display on the front of the scanner. Press the down arrow on the display panel until the SCSI ID appears in the LCD display.

  For the Scanner 3500, Scanner 3510, Scanner 3520, Color Scanner 3590C, and Color Scanner 4500, the SCSI ID number is visible in the small box on the back panel of the scanner.

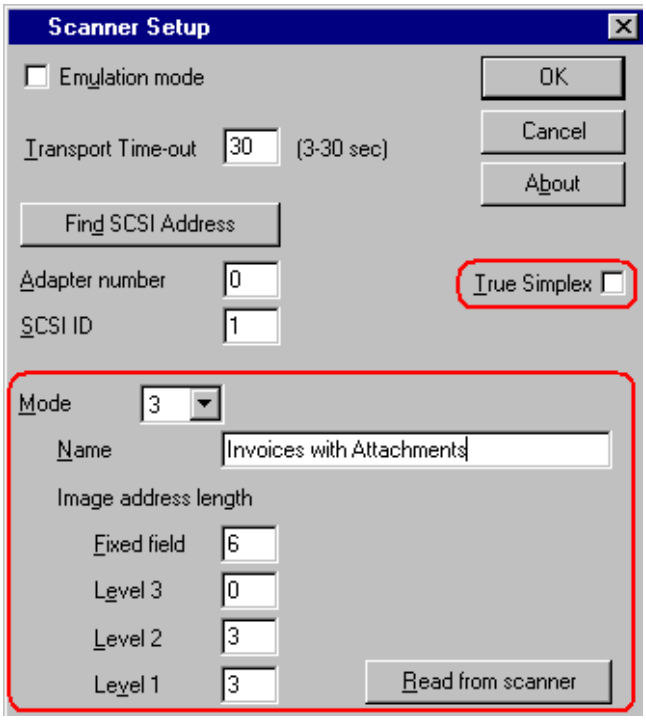
The **Emulation mode** check box is used to enable/disable running Capture Software in emulation mode without an attached scanner. For more information on the Emulation mode check box, refer to Appendix A, *Installation*.

NOTE: If the SCSI Address or Emulation mode settings are changed, you may need to exit and restart Capture Software in order to scan successfully.

4. Press the **About** button to display information about the attached scanner, including the model, serial number, firmware version, etc.

Additional settings for high volume scanners

For the Scanner 5500, Scanner 7520, and Scanner 9520, the Scanner Setup dialog box has the additional settings shown below.



True Simplex—allows you to operate a duplex Kodak high volume scanner more efficiently when scanning single-sided documents in simplex mode. By default, this setting is disabled. You should use it only when scanning small documents (e.g., postcard-size documents) in simplex mode.

Kodak high volume scanners have 18 scanning modes that can be set up for different scanning applications (imprinting, image address format, level rules, document separator, hardware bar code/patch code reading, etc.).

In Capture Software, you must define the image address format (i.e., lengths of the image address fields) for each mode to be used for scanning. The image address format as defined in Capture Software must be identical to the format as defined in the scanner.

Mode Setup

The default image address format for each mode in Capture Software matches the factory setting of the mode defined in the scanner. As a result, you should only need to make changes in Capture Software if mode changes were made in your scanner through the KODAK Scanner Mode Setup Software.

To make changes to your mode setting in Capture Software, do the following:

1. Select a **Mode** from the drop-down list of 18 mode numbers.
2. Enter an optional mode **Name** that will be displayed in Capture Software whenever you are selecting a mode to be downloaded to the scanner.
3. Enter the **Image address length** for each of the image address fields.

   The lengths of the image address fields must match the image address format as defined in the scanner. To assist you in determining what the lengths should be, click on the **Read from scanner** button. This will adjust, if necessary, the image address lengths to match the lengths as defined in the scanner.

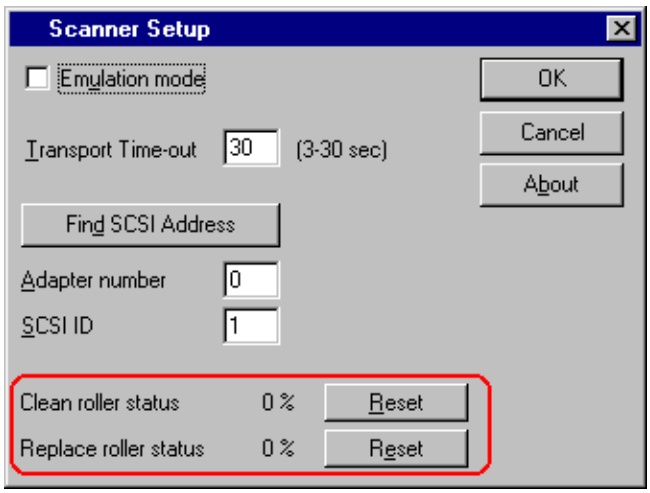
NOTES: The total of all of the image address lengths must not exceed 12 characters.

A length of “0” means that the image address field is not used or it is not applicable for the selected mode.

Read from scanner is operational only for the Scanner 5500 and Scanner 7500/7520.

Additional settings for the Scanner 1500 and Scanner 2500

For the Scanner 1500 and Scanner 2500, the Scanner Setup dialog box has the additional settings shown below.



The Scanner 1500 and Scanner 2500 paper feed rollers and separator rollers must be cleaned and replaced periodically.

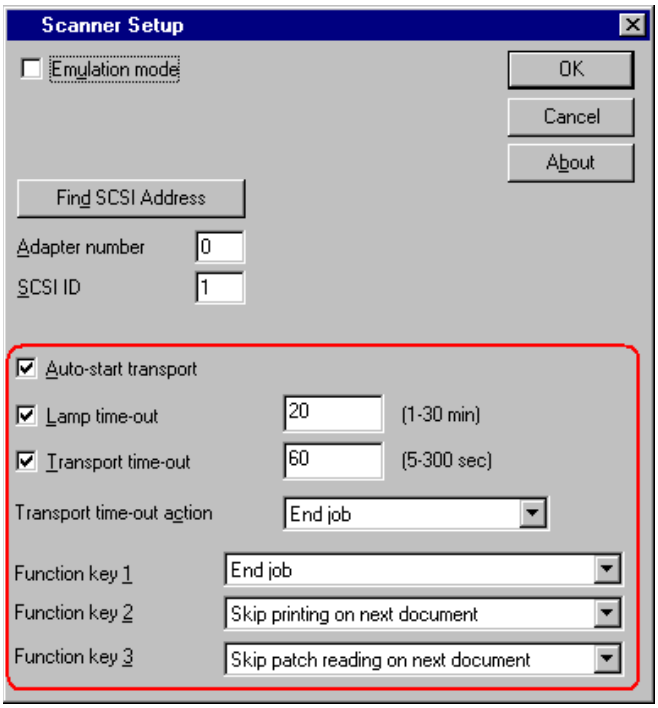
Clean roller status—allows you to clear the Clean Roller warning when it occurs on the scanner. Clean the rollers, then press the **Reset** button to clear the warning.

Replace roller status—allows you to clear the Replace Roller warning when it occurs on the scanner. Replace the rollers, then press the **Reset** button to clear the warning.

See the multimedia User's Guide for the Scanner 1500 or the Scanner 2500 for information about cleaning and replacing the rollers.

Specific settings for the i800 Series Scanners

For the i800 Series Scanners, the Scanner Setup dialog box has the specific settings shown below.



Auto-start transport—allows you to start the scanner transport and feeder automatically when the Start Scanner button is pressed in the main window of Capture Software. By default, this setting is enabled. When disabled, the scanner transport will not automatically start. As a result, you must press the green button on the scanner operator control panel to initiate scanner feeding.

The following settings will only take effect when at least one page is scanned.

Lamp time-out—when enabled, the lamps in the scanner will automatically shut off after a specified number of minutes of scanner inactivity. Valid values are 1 to 30 minutes. When this feature is disabled, the lamps in the scanner remain on until the scanner is powered off.

Transport time-out—when enabled, the scanner transport and feeder will automatically stop after a specified number of seconds of no scanning. Valid values are 5 to 300 seconds. When this feature is disabled, the scanner transport and feeder remain on until the scanner is disabled in Capture Software.

Transport time-out action—select an option to determine what takes place when the transport times out.

- Select **End job** to stop the transport and feeder and disable the scanner. Scanning must be reinitiated from Capture Software.
- Select **Stop feeder and transport** to stop the transport and feeder, and leave the scanner enabled. Scanning can be reinitiated by pressing the green button on the scanner operator control panel.

Function keys 1-3—the i800 Series Scanners have three programmable keys that are accessible from the operator control panel. These keys are available for use by the operator when the scanner is enabled. The operator control panel displays the numbers 1 through 3 corresponding to the buttons on the control panel that represent the function keys.

Each of the programmable keys can be assigned to the following functions:

- Select **None** for no scanner functionality. This is the default setting.
- Select **End Job** to stop the feeder and transport and disable the scanner. Scanning is stopped in Capture Software.
- Select **Terminate Batch** to terminate the active batch when scanner batching is enabled. See the i800 Series Scanner options in Chapter 4, *Application Setup*.
- Select **Skip multi-feed detection on next document** to turn off multifeed detection for the next page scanned.
- Select **Skip printing on next document** to turn off printing for the next page scanned.
- Select **Skip patch reading on next document** to turn off patch code reading for the next page scanned.

Page menu

The following Page menu options are available. Most of these options can also be selected by using the Scanner bar.

Setup List—accesses a drop-down list of all Page Setup names that have been defined. Allows you to select a page setup to use for the application. Once selected from the Setup List, Capture Software automatically downloads the page properties and starts the scanner. Keyboard shortcut: **F2**

Setup—displays the Page Setup dialog box which enables you to set up the properties of the pages to be scanned. For more information about Page Setup, refer to Chapter 9*, Setting up Page Properties*. Keyboard shortcut: **F5**

Front—select this option to enable/disable simplex, front only scanning. Keyboard shortcut: **F9**

Rear—select this option to enable/disable simplex, rear only scanning. Keyboard shortcut: **F10**

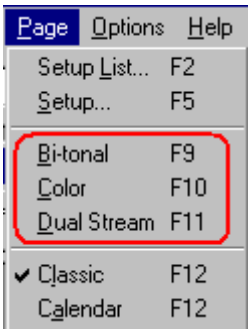
Duplex—select this option to scan double-sided pages with a duplex scanner. Keyboard shortcut: **F11**

Classic—duplex mode typically associated with multi-page documents; such as, reports, postcards, articles. See the section entitled “About Duplex modes” for more information. Keyboard shortcut: **F12**

Calendar—duplex mode typically associated with documents such as presentation handouts, statistical and financial reports, project planning reports. See the section entitled “About Duplex modes” for more information. Keyboard shortcut: **F12**

Specific settings for the i820 Scanner and i840 Scanner

For the i820 Scanner and i840 Scanner, which can scan in both color and black and white simultaneously, the Page menu has the specific settings shown below.



Bi-tonal—both front and rear bitonal are enabled. Select this option to enable bitonal-only scanning. Keyboard shortcut: **F9**

Color—both front and rear color are enabled. Select this option to enable color-only scanning. Keyboard shortcut: **F10**

Dual Stream—select this option to enable dual-stream scanning (both front and rear color and bitonal). Keyboard shortcut: **F11**

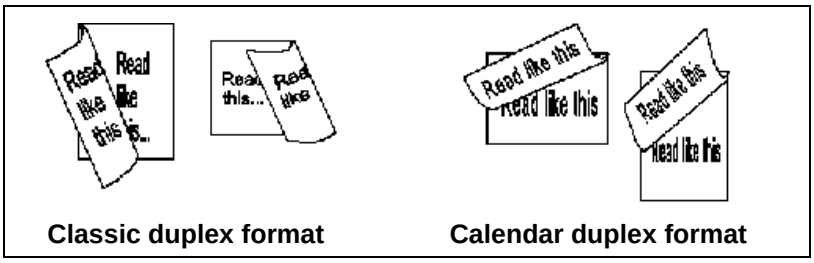
About Duplex modes

The way a document is printed influences the orientation of the images produced by the scanner. There are two different ways of printing duplex documents.

Classic duplex format is typically associated with multi-page reports. Reports, postcards, articles, etc. are all printed according to the classic duplex format.

Calendar duplex format is more unusual. It is used for presentation handouts, statistical and financial reports, project planning reports, etc.

The following illustrates typical duplex classic and calendar formats:



Classic duplex format **Calendar duplex format**

The Duplex buttons (on the Tool bar)

To use these buttons, look at your original and compare it with the picture on the duplex buttons. Click on the button that corresponds with your original.

The duplex mode only influences the way the front image will be rotated in relation with the rear image. It does not set the overall rotation of the document (0°, 90°, 180°, or 270°). Rotation can be set up in the Page Setup dialog box.

The first button handles classic duplex formats:

- A 0° rotated front corresponds with a 0° rotated rear.
- A 180° rotated front corresponds with a 180° rotated rear.
- A 90° rotated front corresponds with a 270° rotated rear.
- A 270° rotated front corresponds with a 90° rotated rear.

The second button handles all calendar duplex formats:

- A 0° rotated front corresponds with a 180° rotated rear.
- A 180° rotated front corresponds with a 0° rotated rear.
- A 90° rotated front corresponds with a 90° rotated rear.
- A 270° rotated front corresponds with a 270° rotated rear.

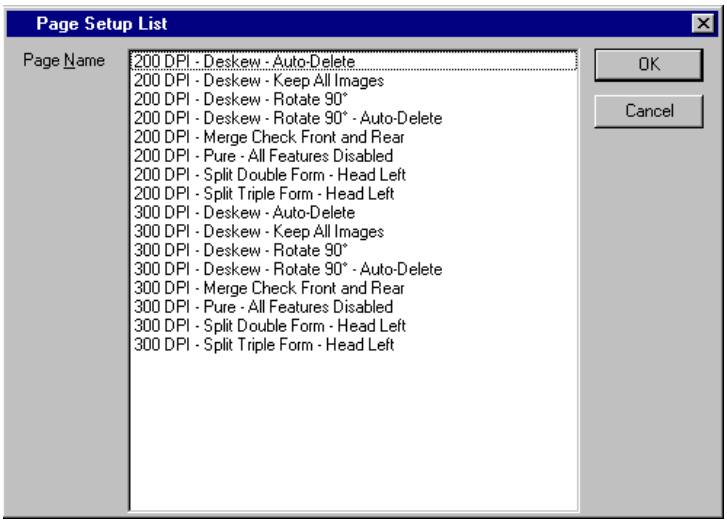
If you have images in the current document and you toggle the duplex mode buttons, the message *Do you want to apply the selected duplex mode to the already scanned images in the current document?* appears.

If you select **Yes**, Capture Software will rotate the images in the current document according to the selected duplex mode.

NOTE: When scanning with the Color Scanner 4500, only classic duplex mode is supported.

Selecting a page setup

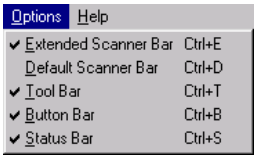
Capture Software comes with several pre-defined page setups The list of pre-defined page setups will vary depending upon which Capture Software product and Kodak scanner are being used. To access the Page Setup list from the main Capture Software window, select **Page>Setup List**.


Page Setup List
Page Name
200 DPI - Deskew - Auto-Delete
200 DPI - Deskew - Keep All Images
200 DPI - Deskew - Rotate 90°
200 DPI - Deskew - Rotate 90° - Auto-Delete
200 DPI - Merge Check Front and Rear
200 DPI - Pure - All Features Disabled
200 DPI - Split Double Form - Head Left
200 DPI - Split Triple Form - Head Left
300 DPI - Deskew - Auto-Delete
300 DPI - Deskew - Keep All Images
300 DPI - Deskew - Rotate 90°
300 DPI - Deskew - Rotate 90° - Auto-Delete
300 DPI - Merge Check Front and Rear
300 DPI - Pure - All Features Disabled
300 DPI - Split Double Form - Head Left
300 DPI - Split Triple Form - Head Left
OK
Cancel

To select a page setup from the drop-down list either use the mouse, arrow keys or enter the first letters of the page setup name. Capture Software automatically scrolls down the Page Setup List until a unique page setup is found.

Options menu

The Options menu allows you to customize the Capture Software screen layout and display or hide the Scanner bar, Tool bar, Button bar, or Status bar. For more information about each of these bars, see the appropriate section within this chapter.



Extended Scanner bar—in addition to the Default Scanner bar, the Extended Scanner bar displays threshold and contrast settings. See the section entitled “Scanner bar” later in this chapter. Keyboard shortcut: **Ctrl+E**

Default Scanner bar—the Default Scanner bar displays the Start and Stop buttons, the Duplex buttons, the Page name information and the front and rear scan options. Keyboard shortcut: **Ctrl+D**

Tool bar—the Tool bar provides shortcuts to commonly used image manipulation commands in Capture Software. Clicking on one of these buttons is equivalent to selecting the corresponding command from the menu bar. The Tool bar is described in more detail in the section entitled “Tool bar” later in this chapter. Keyboard shortcut: **Ctrl+T**

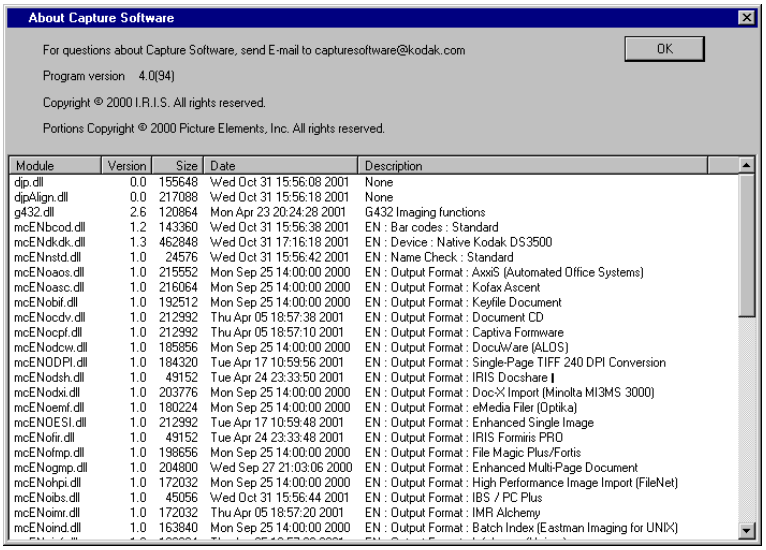
Button bar—the Button bar provides shortcuts to commonly used image display and navigation commands in Capture Software. Clicking on one of these buttons is equivalent to selecting the corresponding command from the menu bar. The Button bar is described in more detail in the section entitled “Button bar” later in this chapter. Keyboard shortcut: **Ctrl+B**

Status bar—the Status bar indicates the size of the last-scanned image or the image you clicked on last. The Status bar is described in more detail in the section entitled “Status bar” later in this chapter. Keyboard shortcut: **Ctrl+S**

Help menu

The Help menu provides access to the About box.

The About box lists all Capture Software program libraries with their corresponding version number and description. The Capture Software program version number is also displayed in the About box.


About Capture Software
For questions about Capture Software, send E-mail to capturesoftware@kodak.com
OK
Program version 4.0(94)
Copyright © 2000 I.R.I.S. All rights reserved.
Portions Copyright © 2000 Picture Elements, Inc. All rights reserved.

Module	Version	Size	Date	Description
dip.dll	0.0	155648	Wed Oct 31 15:56:08 2001	None
dipAlign.dll	0.0	217088	Wed Oct 31 15:56:18 2001	None
g432.dll	2.6	120864	Mon Apr 23 20:24:28 2001	G432 Imaging functions
mcENbcod.dll	1.2	143360	Wed Oct 31 15:56:38 2001	EN : Bar codes : Standard
mcENdkdk.dll	1.3	462848	Wed Oct 31 17:16:18 2001	EN : Device : Native Kodak DS3500
mcENnstd.dll	1.0	24576	Wed Oct 31 15:56:42 2001	EN : Name Check : Standard
mcENoaos.dll	1.0	215552	Mon Sep 25 14:00:00 2000	EN : Output Format : AxxiS (Automated Office Systems)
mcENoasc.dll	1.0	216064	Mon Sep 25 14:00:00 2000	EN : Output Format : Kofax Ascent
mcENobif.dll	1.0	192512	Mon Sep 25 14:00:00 2000	EN : Output Format : Keyfile Document
mcENocdv.dll	1.0	212992	Thu Apr 05 18:57:38 2001	EN : Output Format : Document CD
mcENocpf.dll	1.0	212992	Thu Apr 05 18:57:10 2001	EN : Output Format : Captiva Formware
mcENodcw.dll	1.0	185856	Mon Sep 25 14:00:00 2000	EN : Output Format : DocuWare (ALOS)
mcENODPI.dll	1.0	184320	Tue Apr 17 10:59:56 2001	EN : Output Format : Single-Page TIFF 240 DPI Conversion
mcENodsh.dll	1.0	49152	Tue Apr 24 23:33:50 2001	EN : Output Format : IRIS Docshare I
mcENodxi.dll	1.0	203776	Mon Sep 25 14:00:00 2000	EN : Output Format : Doc-X Import (Minolta MI3MS 3000)
mcENoemf.dll	1.0	180224	Mon Sep 25 14:00:00 2000	EN : Output Format : eMedia Filer (Optika)
mcENOESI.dll	1.0	212992	Tue Apr 17 10:59:48 2001	EN : Output Format : Enhanced Single Image
mcENofir.dll	1.0	49152	Tue Apr 24 23:33:48 2001	EN : Output Format : IRIS Formiris PRO
mcENofmp.dll	1.0	198656	Mon Sep 25 14:00:00 2000	EN : Output Format : File Magic Plus/Fortis
mcENogmp.dll	1.0	204800	Wed Sep 27 21:03:06 2000	EN : Output Format : Enhanced Multi-Page Document
mcENohpi.dll	1.0	172032	Mon Sep 25 14:00:00 2000	EN : Output Format : High Performance Image Import (FileNet)
mcENoibs.dll	1.0	45056	Wed Oct 31 15:56:44 2001	EN : Output Format : IBS / PC Plus
mcENoimr.dll	1.0	172032	Thu Apr 05 18:57:20 2001	EN : Output Format : IMR Alchemy
mcENoind.dll	1.0	163840	Mon Sep 25 14:00:00 2000	EN : Output Format : Batch Index (Eastman Imaging for UNIX)

Scanner bar

The Scanner bar provides tools for controlling the scanner from within Capture Software. If the Scanner bar is not visible, open the Options menu and click on the Scanner bar option. The Scanner bar displayed below is for a duplex scanner scanning both sides of the page.

Default Scanner bar

The Default Scanner bar provides the following options.

Button	Description
	Stop—clears and stops the transport/feeder and disables the scanner.
	Start—enables the scanner and starts the transport/feeder.
	Classic—duplex scanning format typically associated with multi-page reports. Reports, postcards, articles, etc., are all printed according to the classic duplex format.
	Calendar—duplex scanning format typically used for presentation handouts, statistical and financial reports, project planning reports, etc. NOTE: Calendar duplex mode is not supported when scanning with the Color Scanner 4500.
	Page—displays the current/active page setup. Use the drop-down list button to select a different page setup.
	Front—select this option to enable/disable simplex, front only scanning.
	Rear—select this option to enable/disable simplex, rear only scanning.

Specific options for the i820 Scanner and i840 Scanner

For the i820 Scanner and i840 Scanner, which can scan in both color and black and white simultaneously, the Default Scanner bar has the specific settings shown below.

Button	Description
	Bi-tonal—select the Front and Rear buttons to enable/disable front and/or rear bitonal scanning.
	Color—select the Front and Rear buttons to enable/disable front and/or rear color scanning.

Extended Scanner bar

The Extended Scanner bar has all of the options listed previously plus the following options:

Button	Description
	Threshold—controls the lightness and darkness of the background in an image. Valid values are 0 to 255.
	Contrast—contrast enhances the edges contained in a document. The higher the contrast level, the more the image edges will be enhanced. Valid values are 0 to 100.

NOTES: Changing the duplex scanning format, front and rear selection, and threshold/contrast settings from the Scanner bar are temporary settings for the current scanning session and do not affect the currently selected page setup.

Threshold and Contrast are only applicable when scanning in black and white. Therefore, they are **not** available when scanning in color with the Color Scanner 4500. However, when MultiStream™ support (i.e., where each color image is converted to a corresponding bitonal image) is enabled in the currently selected page setup, Threshold and Contrast remain enabled. When color images are binarized, the Threshold and Contrast settings are used as part of the binarization process.

Specific options for the i820 Scanner and i840 Scanner

For the i820 Scanner and i840 Scanner, which can scan in both color and black and white simultaneously, the Extended Scanner bar has the specific settings shown below.

Button	Description
	Threshold—controls the lightness and darkness of the background in a bitonal image. Valid values are 0 to 255. Enter a front side threshold value in the text box on the left. Enter a rear side threshold value in the text box on the right.
	Contrast—contrast enhances the edges contained in a document. The higher the contrast level, the more the image edges will be enhanced. Valid values are 0 to 100. Enter a front side contrast value in the text box on the left. Enter a rear side contrast value in the text box on the right.

Scanner bar context-sensitive menu

If you position the mouse cursor on the Scanner bar and click the right mouse button, the context-sensitive menu will appear. The following menu options are available.

Page Setup—accesses the Page Setup dialog box where you can set up page properties for an application.

Default Bar/Extended Bar—allows you to toggle between the Extended Scanner bar and the Default Scanner bar.

Large Buttons/Small Buttons—allows you to toggle between displaying large and small buttons on the Scanner bar.

Image Calibration—allows you to calibrate the scanner.

NOTE: This option is available only in Capture Software for all mid-volume 3000/4000 Series Scanners and i800 Series Scanners.

Color Calibration—allows you to calibrate the Color Scanner 3590C or Color Scanner 4500 for color image quality.

NOTE: This function is only available in Capture Software for the Color Scanner 3590C and Color Scanner 4500.

Multi-feed Thickness Calibration—allows you to calibrate the scanner for multi-feed detection.

NOTE: This function is only available in Capture Software for the Scanner 3510, Scanner 3520, Color Scanner 3590C, and Color Scanner 4500.

Set Counter—this option appears when the scanner has a document printer.

- For the Scanner 1500 or Scanner 2500: allows you to change the counter value to be printed and/or displayed on the scanner's LCD display.
- For the Scanner 3520DP and Color Scanner 4500DP: allows you to change the counter value to be printed on the next scanned page when document printing is enabled.
- For the i800 Series Scanners: allows you to change the counter value assigned (and optionally printed) to the next scanned page.

Set Mode—allows you to change the scanning mode on the high volume scanner. This option is available only for Capture Software for the 5000, 7000, and 9000 Series Scanners.

Set Image Address—allows you to change the image address that is displayed on the high volume scanner (and optionally imprinted). By default, Capture Software suggests an image address based upon the Application Setup that resynchronizes the current Capture Software document number with the scanner image address. This option is available only for all Kodak high volume scanners (5000, 7000, 9000, and i800 Series Scanners).

Tool bar

If the Tool bar is not displayed, it can be displayed by choosing **Options>Tool bar**. The following table describes the function of each button on the Tool bar. Procedures on how to use these functions are also included in this section. Most of these options can also be accessed from the Tools menu.

The following list provides all of the Tool bar options and a brief summary of their functions.

Button	Description
	Re-Append images—allows you to re-append the remaining images of a document after an Insert operation.
	Insert image—allows you to insert additional images into a scanned document.
	Rescan—allows you to rescan images in a document.
	Delete image—click this button if you want to delete one or more images.
	Delete end of document—click this button to delete the selected image and all subsequent images of a document. This action cannot be undone.
	Confirmation—allows you to confirm an unchangeable action (no undo). Confirmation is required for the Delete, Blank, Crop, and Copy Area tools.
	Flag image—use this tool to indicate something special has to be done with an image after batch processing. Not yet available.
	Rotate 90°—rotates the selected image 90 degrees to the right.
	Rotate 180°—rotates the selected image 180 degrees.
	Rotate 270°—rotates the selected image 270 degrees to the right (i.e., 90 degrees to the left).
	Zoom—allows you to enlarge a portion of an image. When you select **Zoom**, a magnifying glass will be displayed. The Zoom tool does not slide between images.
	Scroll—allows you to scroll in any direction within an image that is partially hidden. This is useful when a single image is too large to be displayed fully on the screen.

Button	Description
	Blank—you can blank out a specific part of an image by using the Blank tool. This is useful to clean up images or remove confidential information.
	Crop—allows you to draw a rectangle around a specific area of an image and discard any information outside the rectangle. Use this tool to keep only the significant part of an image.
	Move—use the **Move** tool to move a page or a consecutive range of pages to another location. You can also set the Move tool to move an image or a consecutive range of images.
	Split—allows you to split a document into two documents.
	Print—allows you to print a complete document, or specific images within a document.
	Copy image—allows you to copy a complete image to the Windows clipboard.
	Copy area—allows you to copy an area of an image to the Windows clipboard.

Using the Tool bar

Following are procedures for using the Tool bar options.

Re-Append images

Insert image

You can insert additional images into a scanned document with the Insert image tool.

To use the **Insert image** tool:

1. Select the **Insert image** tool (or press **Insert**).
2. Click on the page (front image of the page) where you want to insert images.

   The images will be inserted before this page. The selected page and all following images are placed in a temporary buffer. The **Re-Append images** tool appears at the left side of the Tool bar.

   When you click on the rear of a page that also contains a front, the message *Inserting images between a front and a rear of a page is not allowed* appears.
3. Scan the images you want to insert.
4. When you have finished scanning, recall the images in the temporary buffer by clicking on the **Re-Append images** tool or the **Confirmation** tool.

Rescan

To rescan images in a document:

1. Select the **Rescan** tool (or press **R**).
2. Click on the images to be rescanned. To select multiple images, use the CTRL-click and SHIFT-click Windows techniques.

   If only the front or rear scanner is enabled, scanned images will replace all selected images until no selected images are available. Subsequent scanned images will be appended to the document. When a front image replaces a rear image, the new scanned image will also be marked as a rear and vice versa.

   When you use the scanner in duplex mode re-scan is done on a page-per-page basis. Capture Software analyzes each selected page and replaces fronts by fronts and rears by rears. When the selection does not include certain rears or fronts, Capture Software discards the corresponding scanned images. Once all selected images are replaced, subsequent scanned pages will be appended to the document.

Rescanning binarized color pages

When using the **Rescan** tool on color pages that have been binarized (i.e., converted to black and white for MultiStream™ processing), the following guidelines must be followed to ensure a successful rescan operation. These guidelines are important because when a scanned color page is binarized, the page can contain up to four images (front bitonal, rear bitonal, front color, and rear color).

- If only color images need to be rescanned, select a page setup that has binarization disabled (e.g., the *Color 150 DPI – Deskew – Keep All Images* page setup that is provided with Capture Software).
- If only binarized images need to be rescanned, (e.g., to adjust the Contrast or Threshold), select a page setup where only the bitonal images are kept (e.g., the *Color 150 DPI – Deskew – Binary Only for Rescan* page setup that is provided with Capture Software).
- If both color and bitonal images need to be rescanned, highlight both a bitonal and a color image for rescan. Select a page setup where binarization has been enabled (e.g., the *Color 150 DPI – Deskew – Dual Stream* page setup that is provided with Capture Software).
- When rescanning binarized color pages on the Color Scanner 3590C, highlight **all three** images of the page and select a page setup where binarization had been enabled (e.g., *Color 150 DPI – Deskew – Dual Stream*).

Rescanning when using dual stream with an i800 Series Scanner

When scanning dual stream (both front and rear color and bitonal) with an i820 Scanner or i840 scanner, the following guidelines must be followed to ensure a successful rescan operation:

- After highlighting the images of the page that you want rescanned, go to the Scanner bar and use the Front/Rear buttons to enable only those images that are highlighted for rescan.

  For example, if only the Front bitonal and Front color images need to be rescanned, then the Scanner bar would look like the example below when the scanner is restarted.

  Similarly, if only the Front and Rear bitonal images need to be rescanned, then the Scanner bar would look like the example below when the scanner is restarted.

IMPORTANT: Not following these color rescanning guidelines may result in additional images being appended to the end of the current document.

Delete image

You can delete one or more images selected inside a document using the **Delete image** tool. For example, use this tool for the deletion of blank images from a double-sided document. Capture Software renumbers all remaining images after the selected images are deleted.

1. Click on the **Delete image** tool (or press **Delete**).
2. Click on the images you want to delete. To select multiple images, use the CTRL-click and SHIFT-click Windows techniques.
3. Click the **Confirmation** tool (or press the space bar) to confirm deletion of the selected pages.

IMPORTANT: Once confirmed, the selected pages are removed from your system's hard disk. You cannot undo this action.

Delete end of document

1. Click on the **Delete end of document** tool.

   The message *Using this tool may lose a lot of images. Continue anyway?* appears.
2. Click **Yes** to continue.
3. Click on any image to delete that image, and all subsequent images.

IMPORTANT: The images are removed from your system's hard disk. You cannot undo this action.

Confirmation

Use the **Confirmation** tool (or press the space bar) to confirm the following unchangeable actions (no undo):

- deleting images
- cropping images
- blanking parts of one or more images
- copying parts of an image to the Windows clipboard

The **Confirmation** tool also

- appends images from the insert buffer
- deselects all the images selected for rescan

Flag image

You can indicate that something special has to be done with certain images by using the **Flag image** tool. For example, flagged images can be used to indicate that an image has to be processed by an OCR system for data extraction. This function is not yet available.

1. Select the **Flag image** tool.
2. Click on the image you want to flag.

   Flagged images will be colored yellow. If you want to flag multiple images on the screen, use the CTRL-click and SHIFT-click Windows techniques.

Rotate

The **Rotate** tools rotate images 90° right, 180°, or 90° left (270° right). This tool physically rotates the image file, so that when viewed later in any application, it has the same orientation as displayed in Capture Software.

1. Select the desired **Rotate** tool.
2. Click on the image you want to rotate. If you want to rotate all images on the screen or undo the action, select the appropriate function from the Image menu (right-clicking on the image accesses the context-sensitive Image menu).

NOTE: When rotating color images, the default operation is a pixel-precise color image rotation. If continuously repeated on the same color image, pixel-precise rotation may result in some loss of color image quality. To avoid any image quality loss when rotating a color image, select **Enable Fast Color Processing** from the Image menu (right-clicking on the image accesses the context-sensitive Image menu). Fast image rotation may, however, result in the addition of a small amount of black border along some image edges. To re-establish pixel-precise rotation, select **Enable Pixel Precision** from the Image menu.

Zoom (with magnifying glass)

1. Select the **Zoom** tool and click and hold the left mouse button anywhere on an image.

   The zone where you clicked is magnified.

2. You can select other magnification ratios (100%, 150%, 200%, or 250%) through the Image menu (right-clicking on the image accesses the context-sensitive Image menu).

If you want to magnify a different displayed image, click and hold the left mouse button anywhere on that image. The **Zoom** tool does not slide between images.

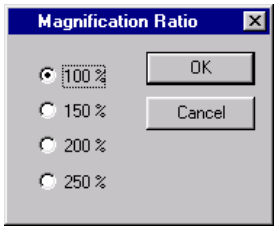
Changing the magnification ratio using the Image menu

1. Right-click on the image.

   The context-sensitive Image menu appears.

2. Select **Magnification ratio**.

   The Magnification Ratio dialog box appears.



3. Click on the setting you desire.
4. Click **OK**.

   The magnification ratio changes to the percentage you selected.

Scroll

Use the **Scroll** tool to scroll in any direction within an image that is partially hidden. This is useful when a single image is too large to be displayed fully on the screen.

The arrow keys perform the same function as the **Scroll** tool. You can use the Control key with an arrow key to move the display immediately to the upper, lower, right, or left portion of an image.

If you are working in a multi-image display mode (2, 4, or 8 images), you can latch every image to scroll to the same relative position. To do this, select the **Scroll Images to Same Position** option from the Image menu (right-clicking on the image accesses the context-sensitive Image menu).

Blank

With the **Blank** tool you can blank out a specific part of an image. Use this tool to clean up images or to remove confidential information (i.e., to protect a name).

To blank part of an image:

1. Select the **Blank** tool.
2. Point to the upper left corner of the area you want to blank out.
3. Click and drag the mouse diagonally over the area you want to blank out.

   NOTE: If you want to blank out the same area on all images on the screen, draw the rectangle on any of the images and duplicate the rectangle by selecting **Apply Blank Rectangle to Screen** from the Image menu (right-clicking on the image will display the context-sensitive Image menu).
4. Click on the **Confirmation** tool to confirm your actions.

   Data within the rectangle is blanked out. **You cannot undo this action.**

You can also draw different rectangles on different images.

Crop

With the **Crop** tool, you can crop an image to a drawn rectangle. Use this tool to keep only the significant part of an image (i.e., newspaper articles).

1. Select the **Crop** tool.

   The mouse pointer now resembles scissors with an arrow.

2. Point to the upper left corner of the area you want to keep.
3. Click and drag the mouse diagonally over the area you want to keep.
4. Release the mouse button and a rectangle is displayed. If it is not acceptable, you can redraw the rectangle (only one rectangle per image) by repeating the above actions.
5. Click on the **Confirmation** tool. The image(s) are cropped to the area within the rectangle(s). **You cannot undo this action.**

   NOTES: If you want to crop the same area on all images on the screen, use the appropriate option from the Image menu (right-clicking on the image accesses the context-sensitive Image menu).

   When cropping color images, the default operation is a pixel-precise image crop. If continuously repeated on the same image, some loss of color image quality may occur. To avoid any image quality loss when cropping a color image, select **Enable Fast Color Processing** from the Image menu (right-clicking on the image accesses the context-sensitive Image menu). Fast image crop, however, is not as accurate as pixel-precise image crop. To re-establish pixel-precise cropping, select **Enable Pixel Precision** from the Image menu.

Move

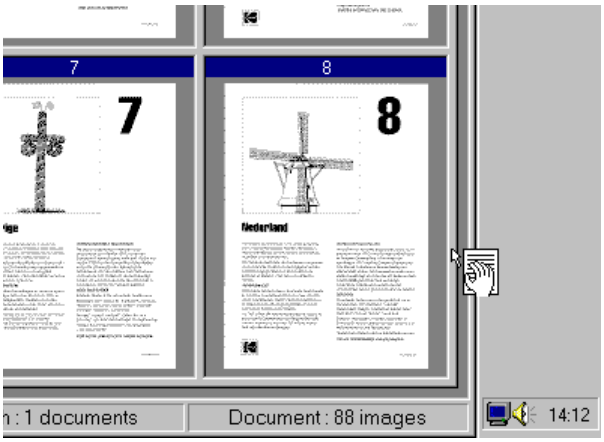
Use the **Move** tool to move a page or a consecutive range of pages to another location.

- Select the **Move** tool, then click on one of the images of the page (front or rear) and drag and drop the page to its new location.

If you drop a page on top of another page, it is inserted before that page. It does not matter whether you drop the page on top of the front or rear image of the page, it will always be inserted before the first image of the page.

When you drop the rear image of a page on the front image of the same page, front and rears are swapped. When you drop the front image of a page on top of the image following the same page, fronts and rears are also swapped.

To place a page after the last image on your screen, position the hand-pointer clearly after the last image (see below).



You can move a page to any location within a document (e.g., from position 1 to position 100). Capture Software renumbers all images after you move a page to a new location.

To change the Move tool so it will move individual images, as opposed to pages, select the Move tool and right-click on an image. Select **Move image** on the context-sensitive menu to change the move tool setting.

NOTE: When using the **Move** tool on pages with more than two images (i.e., pages that have been split into four or six images or color pages that have been binarized [i.e., converted to black and white for MultiStream™ processing]), using only **Move image** is recommended. **Move page** is designed to move corresponding pairs of images. Using **Move page** on split, binarized, or dual stream pages may cause unpredictable results.

Following are some ways to move a page from one location to another within a document.

1. Select one of the images of the page (front or rear) you want to move with the **Move** tool and hold the left mouse button.
2. Drag the page beyond the upper or lower borders of the screen to move it to its new destination.

   Capture Software paginates through the document automatically, as long as you keep the tool beyond the outer borders.
3. Drop the page on top of the page in front of which you want to insert it.

OR

1. Select the page you want to move with the **Move** tool.
2. Press the Home, End, Page Up, or Page Down key to navigate to the location to move the page.
3. Drop the page on top of the page in front of which you want to insert it.

OR

1. Select the page you want to move with the **Move** tool.
2. Press **0** on the numeric keypad followed by the number to which you want to move the page (e.g., **0100** to navigate to image position **100**). When you press **0**, the text **Goto image: 0** is displayed in the bottom left corner of the screen. This text is updated as you type the image number.
3. Press **Enter** to move to the new location or press **ESC** to cancel the Go to function.
4. Drop the page on top of the page in front of which you want to insert it.

Split

The **Split** tool allows you to split a document into two documents.

If you do not separate documents with patch codes, bar codes, markers, or after X pages, you will start a new document by using the **New Document** button. If you forget to do this, the next document is appended to the current document. To correct this, cut off the part belonging to the next document with the **Split** tool to create a new document.

1. Select the **Split** tool and click on the first image in the new document. That image and all subsequent images are cut from the screen and moved to a new document. Capture Software shows the new document with the cut images.
2. When you click on the rear of a page that also contains a front, the message *Splitting a document in the middle of a front and a rear of a page is not allowed* appears.

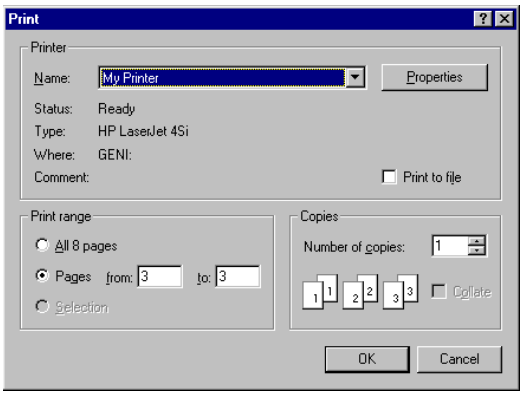
If you want to undo this action, select the **Undo** option from the Image menu and the cut images are returned in their original document (right-clicking on the image accesses the context-sensitive Image menu).

Print

You can print a complete document or specific images within a document with the **Print** tool.

1. Click on the **Print** tool.
2. Click on the image you want to print.

   A standard Windows Print dialog box is displayed. For example:



3. Select the image page or pages that you want to print. By default, Capture Software selects the image page that was selected with the Print tool.
4. Select any of the other options/properties on the Print dialog box.
5. Click **OK** to start printing.

NOTE: Color images may not be printed. Only black-and-white images can be printed at this time.

Copy image

To copy a complete image to the Windows clipboard:

- Click on the **Copy image** tool and select one of the images in your document.

Copy area

To copy an area of an image to the Windows clipboard:

1. Click on the **Copy area** tool.
2. Draw a selection rectangle around the area you want to copy from an image.
3. Click on the **Confirmation** tool or press the space bar.

   The selected rectangular area of the image is copied to the Windows clipboard.

Tool bar context-sensitive menu

If you position the mouse cursor on the Tool bar and click the right-mouse button, the context-sensitive menu appears. The following menu option is available:

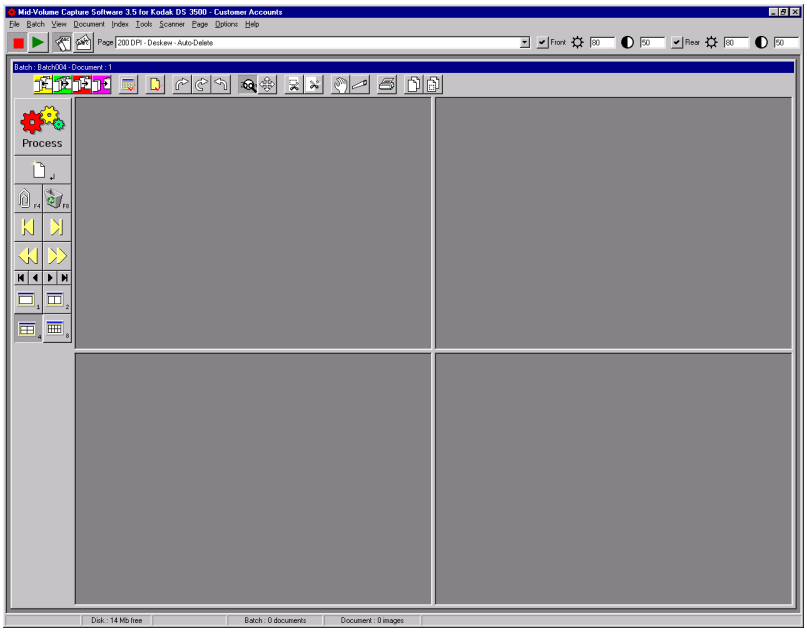
Large Buttons/Small Buttons—allows you to toggle between displaying large and small buttons on the Tool bar.

Document title bar

The Document title bar shows the current document number and batch name. If you right-click the mouse button, you can access the Properties option. Properties will display a full path name of the current document, number of images and number of pages in the document.

Image display area

The Image display area is the area where your images are displayed. How they are displayed is dependent upon what you have set up from the View menu. You can view 1, 2, 4, or 8 images at a time. The example below shows a 4-image display.



NOTES: Every page scanned in Capture Software is displayed on-the-fly during scanning.

When scanned color pages from a Color Scanner 3590C or Color Scanner 4500 are binarized (i.e., converted to black and white for MultiStream™ processing), the bitonal images of the scanned page are displayed first, followed by the color images.

When dual-stream scanning (simultaneous color and black and white scanning), as with an i820 Scanner or i840 Scanner, the image display order is determined by the currently selected page setup. For more information, refer to Chapter 9, *Setting Up Page Properties*.

Image title bar

The Image title bar contains the current image number. The format of the image number (0 or 1 based) is defined in the **Application Setup> Images-Native Scan Structure**.

When you right-click on the Image Title bar, the context-sensitive menu with the option **Properties** appears.

Properties provides access to the following information for each image:

- Front or rear
- Page ID within the batch
- Location on disk
- Compression
- Resolution
- Image size in bytes, pixels by pixels, 1/100 inch x 1/100 inch, or in mm x mm
- Degrees of skew correction (when performed by the scanner or by Capture Software) applied to the image
- Skew Correction status (Scanner 3520 and i800 Series Scanners only)

NOTE: Skew correction is not reported at this time for color images that have been deskewed by Capture Software.

- Print string when printing is enabled for the Scanner 3520 DP, Color Scanner 4500DP, or an i800 Series Scanner
- Image Address (i800 Series Scanners only)
- Sequential Counter (i800 Series Scanners only)
- Patch code type detected by the scanner (i800 Series Scanners only)
- List of detected bar code values (by launching the bar code engine when Properties is called). Only bar codes defined through Bar Code Setup appear. Hardware bar codes that are read by a Kodak high volume scanner are not displayed in Image Properties.

NOTE: Bar code detection is not available for Low Volume Capture Software *Lite*.

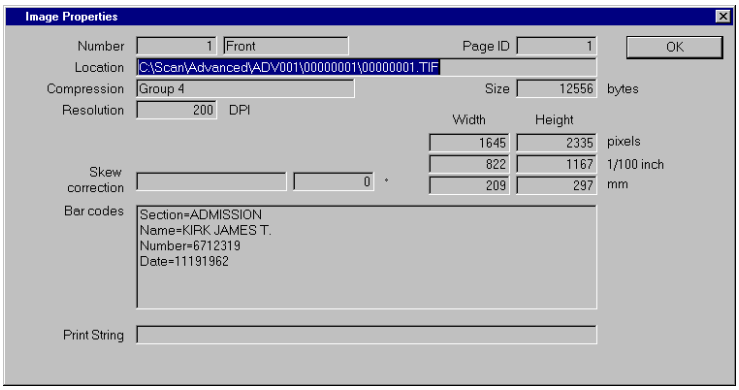
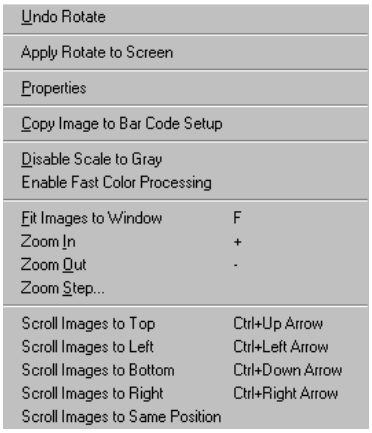


Image context-sensitive menu

When you right-click on an image, a context-sensitive menu is displayed with the following options:


Undo Rotate
Apply Rotate to Screen
Properties
Copy Image to Bar Code Setup
Disable Scale to Gray
Enable Fast Color Processing
Fit Images to Window F
Zoom In +
Zoom Out -
Zoom Step...
Scroll Images to Top Ctrl+Up Arrow
Scroll Images to Left Ctrl+Left Arrow
Scroll Images to Bottom Ctrl+Down Arrow
Scroll Images to Right Ctrl+Right Arrow
Scroll Images to Same Position

Undo [function]—this reverts one level of the last rotation, split tool action, and selection for insert, re-scan, delete, or flag. The menu option indicates the undo action it will perform (e.g., Undo Rotate, Undo Split, etc.).

Apply [function] to Screen—these menu options apply the selected tool on all the images on the screen at one time. This works with Rescan, Flag, Rotate, Blank, and Crop.

Properties—see the previous section, “Image title bar,” for an explanation of this function.

Copy Image to Bar Code Setup—makes the image available to Bar Code Setup for defining bar code field zones. Refer to Chapter 6, *Bar Code Setup*, for more information.

NOTE: Bar code detection is not available for Low Volume Capture Software *Lite*.

Enable/Disable Scale to Gray—toggles scale to gray on or off.

Enable Fast Color Processing / Enable Pixel Precision—toggles the image rotation and image cropping setting for color images. This setting only affects the behavior of the Rotate and Crop tools for color images. For details, see the section entitled “Tool bar.” The default is Enable Pixel Precision.

Fit Images to Window—this function is the same as described in the section entitled “The View menu.” Keyboard shortcut: **F**

Zoom in—this function is the same as described in the section entitled “The View menu.”

Zoom out—this function is the same as described in the section entitled “The View menu.”

Zoom Step—this function is the same as described in the section entitled “The View menu.”

Scroll Images to Top—selecting this function will scroll all the images in the Image Display area to the top.

Scroll Images to Bottom—selecting this function will scroll all the images in the Image Display area to the bottom.

Scroll Images to Left—selecting this function will scroll all the images in the Image Display area to the left.

Scroll Images to Right—selecting this function will scroll all the images in the Image Display area to the right.

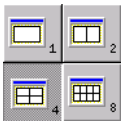
Scroll Images to Same Position—selecting this function will scroll all the images in the Image Display area to the same position as the image that was right-clicked.

Status bar

The Status bar indicates the size of the last scanned image or the image you clicked on last and the total Free Disk Space and Free Batch Space (based on the Maximum MB setting defined in the Storage setup). It also indicates the total number of images in the document and the number of documents in the batch.

Button bar

When selected, the Button bar appears on the left side of the screen. If the Button bar does not appear, enable **Button bar** from the Options menu. The following table describes the function of each button.

Button	Description
	Process—when selected, processes the current batch.
	New Document—when selected, Capture Software starts a new document with a document number equal to the last document number +1. In Capture Software for 3000/4000 Series Scanners and i800 Series Scanners, selecting this button also enables the scanner and starts the scanner transport/ feeder.
	Attachment—appends the next scanned page to the current document. This button only creates one attachment and has to be clicked again for each additional attachment.
	Delete Document—deletes the current document. A confirmation box will be displayed when you click on this button.
	First Document—click this button to go directly to the first document in a batch.
	Last Document—click this button to go directly to the last document in a batch.
	Previous Document—moves to the previous document number containing images.
	Next Document—moves to the next document number containing images.
	Image Navigation—allows you to move respectively to the first, previous, next, and last image of a document.
	**Display Mode**—allows you to display 1, 2, 4, or 8 images simultaneously.

Button bar context-sensitive menu

If you position the mouse cursor on the Button bar and click the right-mouse button, a context-sensitive menu is displayed which allows you to display either large or small buttons.

4 Application Setup

Accessing the Application Setup

Capture Software provides two types of applications: Production applications and Template applications.

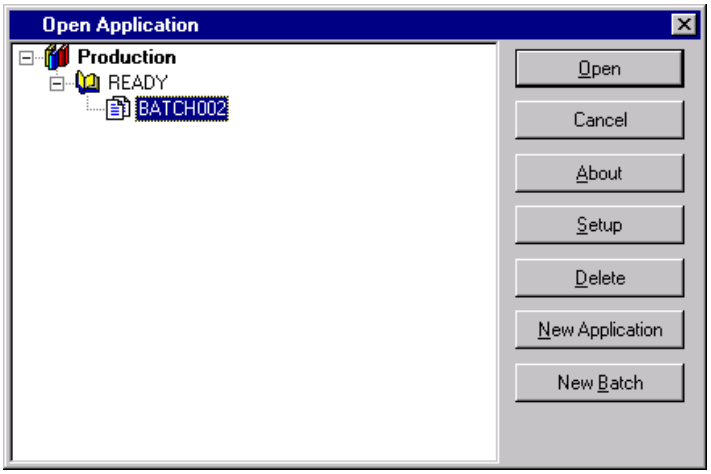
Production applications allow you to scan and create batches in a specific application.

Template applications are read-only applications that allow you to create a Production application based on the parameters used in the template. Template applications cannot be opened. They can only be set up. As a result, you cannot scan and create batches in Template applications. Capture Software provides a range of pre-defined Template applications.

To access Application Setup, proceed as follows:

- Double-click on the Capture Software icon to open Capture Software.

  The Open Application dialog box appears.



The Open Application dialog box provides the following options:

NOTE: When you select **Open**, **Setup**, or **Delete**, the dialog box that appears will either be for an application or batch (depending on whether you have an application or batch highlighted).

Open—opens an existing application or batch.

Cancel—closes the Open Application dialog box.

About—accesses a Readme text file that describes the selected application.

Setup—accesses the Application Setup dialog box which allows you to set up the selected application. If a batch is highlighted, displays the Batch Setup dialog box.

Delete—allows you to delete a selected application or batch. You cannot delete an application that contains batches.

New Application—accesses the Create New Application dialog box which allows you to set up a new application.

New Batch—accesses the Create New Batch dialog box which allows you to create a new batch for a selected application.

Opening and setting up applications

You must access the Open Application window before accessing Application Setup. Production and Template applications will be displayed only if the user profile provides access to both types of applications; otherwise, only Production applications will be displayed.

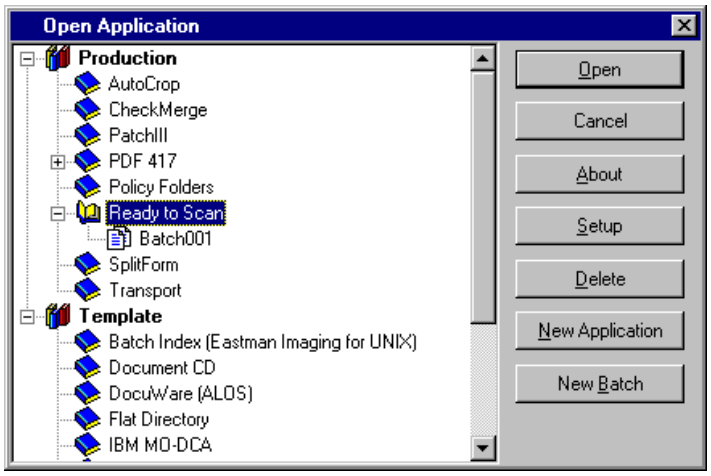
Using the Application Setup tabs you can define:

- The way images will be stored after scanning (Native Scan structure and separated at the batch, document and page level
- User access levels
- Index fields at the batch, document and page level
- Batch Output format for the application

This chapter explains these functions using the Application Setup tabs.

To open and set up an application, proceed as follows:

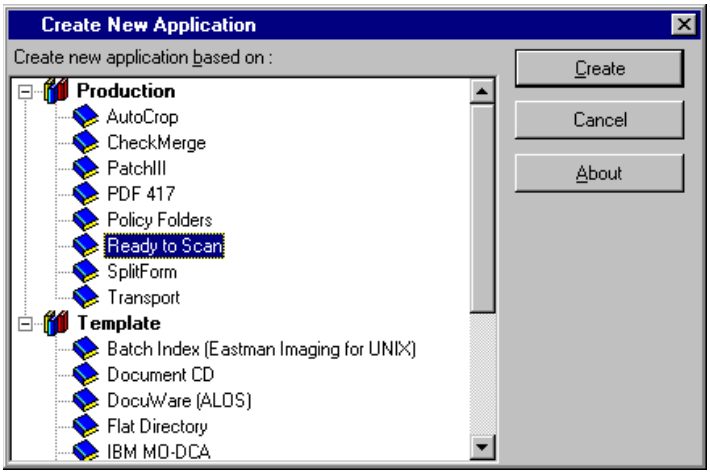
1. Select **File>Open Application** to show a list of available applications.



2. Select or highlight the application you want to set up and click **Setup** to access the Application Setup window.

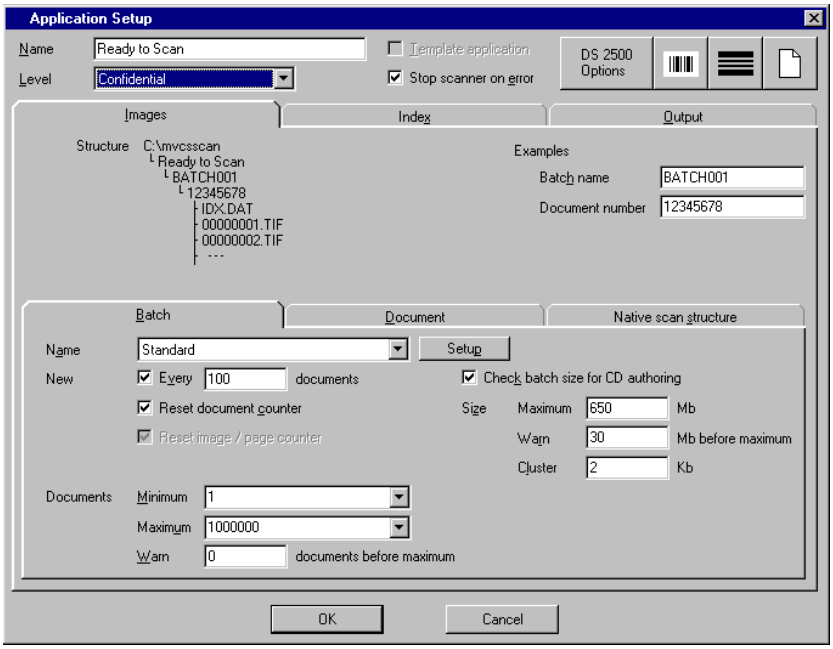
   or

   Click the **New Application** button to access the Create New Application dialog box to set up a new application..



3. Select or highlight the application on which you want to base your new application and select **Create**.

   The Application Setup window appears.



4. Enter an application name in the Name field.

   This application name can only be entered when creating a new application. You cannot modify the application name of an existing application.

NOTE: The last character of the application name must not end with a period (.).

5. Select one of the four levels from the drop-down list box to define the user access level for the application.

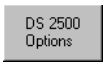
   Only users who are defined for the selected level can open and access the application. The access levels are **Demo**, **Normal**, **Confidential**, or **Top Secret**.

6. If you want this application set as a template, click the **Template application** box. If you check this box, scanning cannot be done in this application.

7. If you want to stop the feeder and paper transport on the scanner when an error is detected, click the **Stop Scanner on Error** box. If you do not check this box, a message will appear when an error is encountered, but the scanner will not stop.

Following are some errors that you may encounter:

- Index values that do not pass an audit (e.g., bar code missing or partial read)
- Batch names that do not pass an audit with automatic batch creation
- The page length is too short or too long
- Batch size warning level reached
- Disk space warning level reached
- Maximum number of documents in a batch is exceeded
- Maximum number of pages in a document is exceeded
- Minimum number of documents in a batch is not correct when a new batch is started
- Minimum number of pages in a document is not correct when a new document is started
- Batch name already exists with automatic batch creation

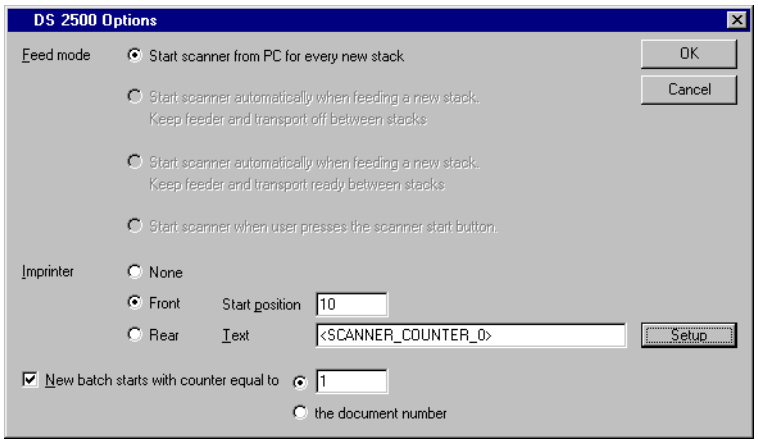
Button	Description
	Bar Code Setup—click this button to define bar codes to be used for indexing and/or batch or document separation. See Chapter 6, *Bar Code Setup*, for more information. NOTE: Bar code detection is not available for Low Volume Capture Software *Lite*.
	Patch Setup—click this button to define batch and document separation using patch codes. See Chapter 5, *Patch Setup*, for more information. NOTE: Patch code detection is not available for Low Volume Capture Software *Lite*.
	Blank Page Setup—click this button to define batch and document separation using blank pages. See Chapter 8, *Blank Page Setup*, for more information.
	**DS XXXX Options—**click this button to define application settings that are specific to the attached scanner (e.g., Scanner 2500). See the section entitled “Scanner-specific settings” in this chapter.

Scanner-specific settings

For most Kodak scanners (except the Scanner 3500, Scanner 3510, and Color Scanner 3590C), the Application Setup window provides a button for scanner-specific settings at the application level. Each of these buttons is described in this section.

DS 1500 and DS 2500 Options

Click the DS 1500 or DS 2500 Options button to access the DS 1500 or DS 2500 Setup dialog box which allows you to define scanner-specific options for the Scanner 1500 or Scanner 2500.



Feed modes

The Scanner 1500 and the Scanner 2500 support four feed modes as described in this dialog box. Only the feed mode Start Scanner from PC for every new stack is currently available.

In this feed mode, the paper must be in the feeder before you start the scanner from Capture Software. When the stack of paper has been scanned, or when the feeder is empty, the scanner automatically stops. The scanner must be restarted for every stack of paper to be scanned.

NOTE: For the Scanner 1500, which is a combination flatbed and rotary scanner, the feed mode setting applies only to the rotary scanner. For flatbed scanning options, refer to Chapter 9*, Setting Up Page Properties*.

Imprinting

You can install an optional document printer in the Scanner 1500 and Scanner 2500. The Scanner 1500 supports a front document printer, while the Scanner 2500 supports both front and rear document printers.

While you can install a document printer in both the front and rear of the Scanner 2500, only front or rear imprinting can be enabled at any one time.

None—imprinting is disabled.

Front—the front document printer prints on the front side of the document before scanning. Therefore, the scanned image will include the imprinted data.

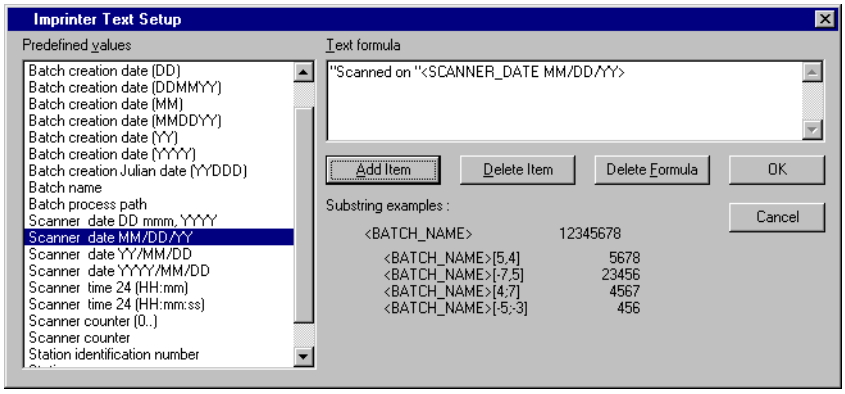
Rear—the rear document printer prints on the back side of the document after scanning. Therefore, the scanned image will not include the imprinted data.

When imprinting is enabled, you must specify the **Start position** and the **Text** to be imprinted.

The Start position indicates how far down vertically on the page imprinting will begin. The start position is specified the units of 2.4 mm. Imprinting cannot be done on the first or last 10 mm on a scanned page. Therefore, a Start position of “0” causes imprinting to begin 10 mm down from the top of the paper. Furthermore, a Start position of 10 (20.4 mm) causes imprinting to begin 30.4 mm (approximately 1.2 in.) from the leading edge of the page.

The horizontal position across the page must be set on the document printer unit inside the scanner. You cannot specify the horizontal position within Capture Software.

Specify the data to be imprinted in the Text box. You can either type in the information you want to be imprinted or you can press the Setup button to access the Imprinter Text Setup dialog box to build an imprinter text formula based on pre-defined values.



The left side of the dialog box contains a list of pre-defined values that you can use to build the imprinter text formula. The imprinter text can consist of one or more pre-defined values as specified in the formula.

To set up an imprinter text formula:

1. Select a pre-defined value from the list box.
2. Click **Add Item**.
3. Repeat steps 1 and 2 until your formula is complete.

NOTES: Select **Delete Item** to delete the last pre-defined value that was added. **Delete Formula** deletes the entire imprinter text formula.

You can also use a special substring syntax, enclosed within square brackets, to retain a certain portion of a default value (e.g., [1,4]). See the section entitled “Substring syntax” under *Index setup tab* later in this chapter for formulas and examples.

You can also combine pre-defined values with a manually entered string value to build a formula. (See the example in the above dialog box.)

In general, the imprinted text will be the same for every page scanned after starting the scanner. However, when you use the following pre-defined values, the scanner changes what prints on each page without the operator having to stop and start the scanner.

NOTE: Substrings are not allowed when you use these incremented pre-defined values.

Scanner date—sets the scanner date to the scanning PC’s system date. If the date changes during scanning (i.e., scanning at midnight), the imprinted date will also change. The scanner date can be imprinted in the following formats:

31 Aug., 1999
08/31/99
99/08/31
1999/08/31

Scanner time—sets the scanner time to the scanning PC’s system time. As the time changes during scanning, the imprinted time also changes. The scanner time can be imprinted in the following formats:

15:30
15:30:47

Scanner counter—when this option is selected, the counter on the scanner’s LCD display will be imprinted. As the counter value increases by one for each scanned page, the imprinted counter value also increases.

The displayed counter value represents the next scanned page. Therefore, the value appearing on the scanner’s LCD display will be the value imprinted on the next scanned page.

The counter value is always imprinted right-justified in a span of seven characters (left-filled with spaces or blanks). When you select **Scanner counter (0..)**, the imprinted value will be zero-filled instead of filled with spaces or blanks.

Counter

During scanning, the scanner's LCD display contains a counter that you can set through Capture Software. As each page is scanned, the counter value increases by one.

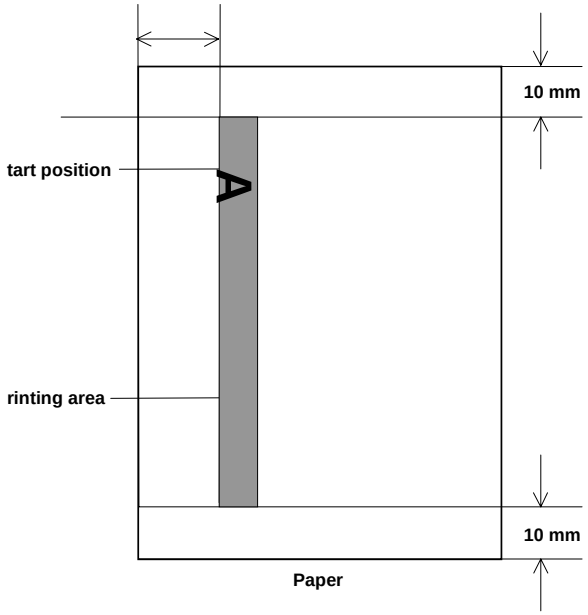
When you enable **New batch starts with counter equal to**, Capture Software sets the starting counter to either the value specified or the document number of the first document in the batch. By default, the counter will be set to "1" when a new batch is created.

NOTE: The starting counter is set only when you manually create a new batch. If batches are automatically created (e.g., blank page separation), the counter value will increment across batches.

When this option is disabled, the counter will not be reset when a new batch is created. The counter value will increase across batches.

NOTE: After powering up the scanner, the counter resets to zero. Therefore, if the starting counter is not set when you create a new batch, counting and imprinting will start at "0."

A maximum of 72 characters can be printed on a page. Imprinting is done vertically from the top of the paper. Character tops face the right of the paper as shown in the print orientation diagram below.



i800 Series Options

Click the i8xx Options button to access the i800 Options dialog which allows you to define scanner-specific options for the i800 Series scanners. With the i800 Series scanners, there is no need for Mode Setup Software anymore to configure things such as Image Address, Printing, Batching, and Patch Code recognition in the scanner. It now can all be done in Capture Software.

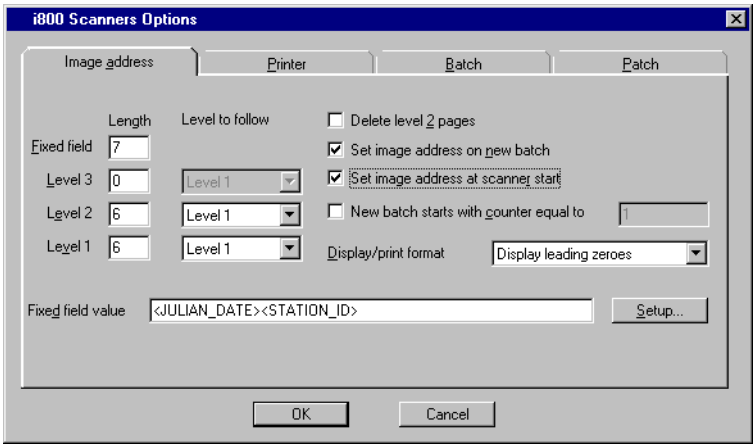


Image Address tab

The Image Address tab allows you to define the image address format used during scanning and other related image address options within Capture Software. There are four image address fields that make up the image address format:

Fixed Field—a static field containing ASCII text that does not increment or change during scanning.

Level 3—a counter that is associated with the numeric portion of the batch name within Capture Software. Whenever a Level 3 page is scanned, Capture Software will automatically create a new batch and discard the Level 3 page.

Level 2—a counter that is associated with the document number of the current batch in Capture Software. Whenever a Level 2 page is scanned, Capture Software will automatically create a new document.

Level 1—a counter that is associated with the page number of the current document in Capture Software. Whenever a Level 1 page is scanned, Capture Software will attach the images for the page to the current document.

Length—allows you to specify the length of each image address field. The maximum length for each image address field is 9. The combined length of all image address fields cannot exceed 27 characters. This results in a maximum image address length of 30 characters (with a period (.) delimiter between each field). Enter a value of 0 to disable an image address field. The default setting of all image fields lengths set to 0 will disable image addressing in the scanner.

NOTES: For a Level 2 Offset image address format, specify a Level 2 length and set the Level 1 length to 0.

For a Level 3 Offset image address format, specify a Level 3 and Level 2 length and set the Level 1 length to 0.

Level 2 and Level 3 Offset image address formats are not recommended with Capture Software for the i800 Series scanners. While the Offset image address formats (popular with legacy Kodak High Volume scanners and HVCS customers) are still supported with the i800 Series scanners, they do behave differently from existing High Volume scanners (e.g., Scanner 9520):

- Level 1 value is not maintained or contained in the image header data.
- Every time the scanner is started/enabled with an Offset image address format, the scanner image address will be at Level 2. Unless the scanner operator changes the image address to Level 1 via the operator control panel, the next scanned page will be a Level 2 page which will cause a new document to be created in Capture Software. This will result in the Capture Software document number and the scanner image address to be out of sync.
- Because the scanner printing functionality allows individual image address fields to be printed and because the image address format has been extended from 12 characters to 27 characters, the need for Offset image addresses becomes unnecessary.

Level to follow—for each image address level, specify the image level that will be assigned to the next scanned page. Possible values are Level 1, Level 2, and Level 3. Level 1 is the default setting for all Level to follow rules. If a Level 2 and/or Level 3 image address field is not defined, then a Level to follow rule may not be specified. A Level to follow Level 1, however, may always be specified.

Example

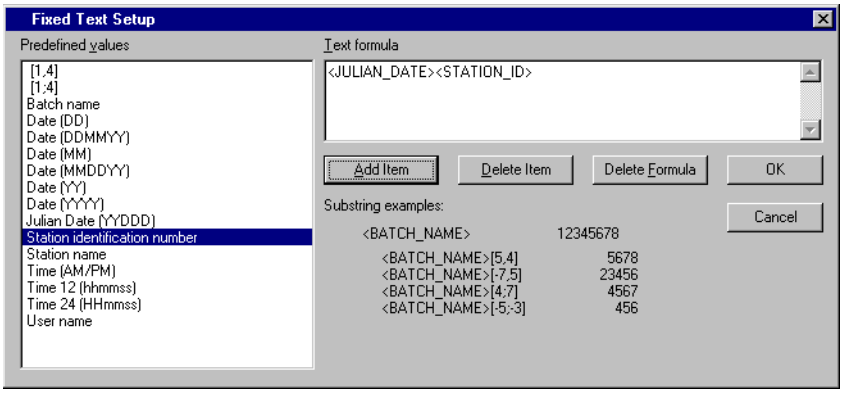
For health claim processing, every page scanned (the claim form) is its own document. There is, however, the occasional claim form that will be accompanied by some form of correspondence or supporting documentation. For this application, you would define a Level 2 image address with the following Level to follow rules:

Level 2 followed by Level 2

Level 1 followed by Level 1

This will effectively create a new document in Capture Software for every page scanned. When the exception claim form needs to be scanned, the scanner operator presses the Level key on the scanner control panel to set the image address level to Level 1 after scanning the claim form. Then the correspondence pages are scanned. Once complete, the Level key is pressed again to set the image address level back to Level 2 for regular scanning.

Fixed field value—allows you to specify the default value for the Fixed field portion of the image address. You can either type in the Fixed field value (enclosed in double quotes “”) or you can press the **Setup** button to access the Fixed Field Setup dialog box to build a Fixed Field formula based on pre-defined values.



The left side of the dialog box contains a list of pre-defined values that you can use to build the Fixed Field formula. The Fixed field value can consist of one or more pre-defined values as specified in the formula. The total number of characters in the formula cannot exceed the defined length for the Fixed field.

To set up a Fixed field formula:

1. Select a pre-defined value from the list box.
2. Click **Add Item**.
3. Repeat steps 1 and 2 until the formula is complete.

NOTES: Select **Delete Item** to delete the last pre-defined value that was added. **Delete Formula** deletes the entire Fixed field formula.

You can also use a special substring syntax, enclosed within square brackets, to retain a certain portion of a pre-defined value (e.g., [1,4]). Refer to the “Index setup tab” section later in this chapter for the substring syntax for formula and examples.

You can also combine pre-defined values with a manually entered string value to build a formula.

Delete level 2 pages—enable this option to automatically delete Level 2 pages that have been scanned. This option is useful when a Level 2 Patch page is being used as a document separator.

Set image address on new batch—enable this option to set the image address value when a new batch is manually created in Capture Software. This option does not affect the image address when batches are automatically created in Capture Software (e.g., blank page separation, bar code separation). By default, the image address default value for a new batch will be as follows:

Fixed field—the default value as defined in this dialog.

Level 3—the batch number portion of the Capture Software batch name (e.g., a value of 19 if the batch name is Batch019).

Level 2—Capture Software document number for the first document in the batch.

Level 1—0 if the image address format is Level 2 or Level 3. 1 if the image address format is Level 1.

In addition, with sufficient privileges, the user will have the opportunity to override the default image address value when the batch is created.

Set image address at scanner start—enable this option to automatically resynchronize the scanner image address with the current scan batch in Capture Software every time the scanner is started. The image address value is set to what the image address should be for the next scanned page. This option is only available when Set image address on new batch is enabled. When the scanner image address is resynchronized, the image address fields will be set to the following:

Fixed field—will not change from the current scanner value.

Level 3—the batch number portion of the Capture Software batch name.

Level 2—the current Capture Software document number.

Level 1—the number of pages in the current document if the image address format is Level 2 or Level 3. Number of pages in the current document + 1 if the image address format is Level 1.

NOTES: When dual-stream scanning (both color and b-tonal scanning simultaneously), Set image address at scanner start is not recommended. This is because the number of pages in the current document is not correctly maintained by Capture Software when dual-stream scanning. As a result, the Level 1 portion of the image address can easily get out of sync.

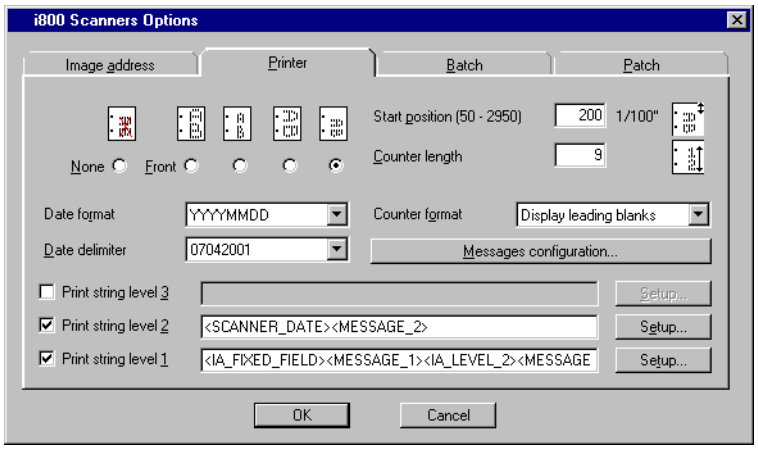
When Set image address at scanner start is enabled, the Set Image Address option in the Scanner Menu becomes ineffective. This is because any change in the image address made by Set Image Address will be overridden once the scanner is restarted.

New batch starts with counter equal to—enable this option to set the Sequential Counter inside the scanner whenever a batch is manually created in Capture Software. This option does not affect the Sequential Counter when batches are automatically created in Capture Software (e.g., blank page separation, bar code separation). When enabled, specify the starting value.

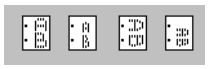
Display/print format—specify the format of the image address fields whenever the image address is displayed on the scanner operator control panel or printed on a scanned page. Possible options are Display leading zeroes (i.e., pad with zeroes), Display leading blanks (i.e., pad with spaces), or No padding.

Printer tab

The Printer tab allows you to define what gets printed on each scanned page, where printing will occur, and the format in which printing will be done.



The i800 Series Scanners include a built-in document printer for the front of each scanned page. Select **None** to completely disable printing. To enable printing, select one of the four font/orientation options by clicking on the appropriate radio button:



Start position—specify how far down vertically on the page printing will begin. The start position is specified in units of 1/100 of an inch. The start position must begin at least ½" from the lead edge of the page. Allowable values are between 50 (1/2") and 2950.

The horizontal position across the page must be set on the document printer unit inside the scanner. You cannot specify the horizontal position within Capture Software.

Counter length—when printing the scanner's sequential page counter, specify how many digits of the counter you want to print. The counter is a 9 digit number and you can select to print anywhere from 1 to 9 digits. If the counter value inside the scanner is greater than the number of digits specified, then the scanner will report a "Sequential Counter Overflow" error and scanning will be stopped.

Counter format—when printing the counter, specify its format. Possible options are Display leading zeroes (i.e., pad with zeroes), Display leading blanks (i.e., pad with spaces), or No padding.

For example, if the counter value inside the scanner is 26 and the counter length is 4 and the counter format is Display leading zeroes, then the counter printed on the scanned page will be **0026**.

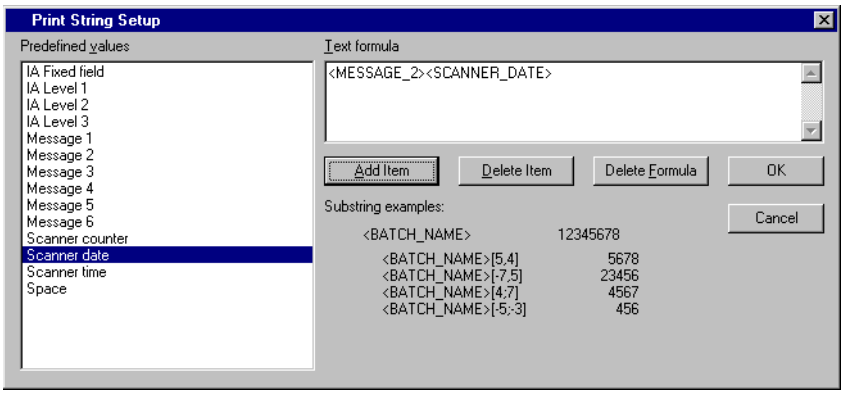
Date format—when printing the date maintained inside the scanner, specify the date format to be used. Possible values are MMDDYYYY, DDMMYYYY, and YYYYMMDD.

Date delimiter—when printing the scanner date you can also specify the delimiter to be used in between the date fields. Possible values are: no delimiter, forward slash "/", hyphen "-", period ".", and a space.

Print String—when printing is enabled, you must specify the text or print string to be printed on each scanned page. With the i800 Series scanners, you can specify a different print string for each image level (i.e., Level 3, Level 2, Level 1). In addition, you can elect to enable/disable printing at each image level.

For example, if you only wanted to print on the lead page of each document, you would check the box **Print string level 2**, but disable (uncheck) Print string level 3 and Print string level 1.

Specify the data to be printed for each image level by pressing the Setup button to access the Print String Setup dialog box to build a print string formula based on pre-defined values.



The left side of the dialog box contains a list of pre-defined values that you can use to build the print string formula. The print string can consist of one or more pre-defined values as specified in the formula.

To set up a Print String formula:

1. Select a pre-defined value from the list box.
2. Click **Add Item**.
3. Repeat steps 1 and 2 until your formula is complete.

NOTES: Select **Delete Item** to delete the last pre-defined value that was added. **Delete Formula** deletes the entire Print String formula.

For the Print String formula, you CANNOT use the special substring syntax that is available in other Formula dialog boxes. This is because all of the pre-defined values are scanner values and scanner values can not be substringed.

Manually entered string values (enclosed in double quotes “”) CANNOT be used for the Print String formula. Instead, the pre-defined **Message** fields must be used to print fixed text as part of the Print String formula. Information about Message configuration is on the following page.

A maximum of 40 characters can be printed on a page. Therefore, the print string formula may not result in more than 40 characters of data.

During scanning, the printed text can be a combination of fixed text (i.e., will be the same for each scanned page) or variable values (i.e., values that may change with each scanned page). The Message fields (**Message 1**,…**Message 6**) are fixed for each scanned page. The **Space** field can be used to separate predefined values if more than one is selected for the print string formula (you can also use spaces, or other typed in delimiters, when defining the Message fields to separate predefined values).

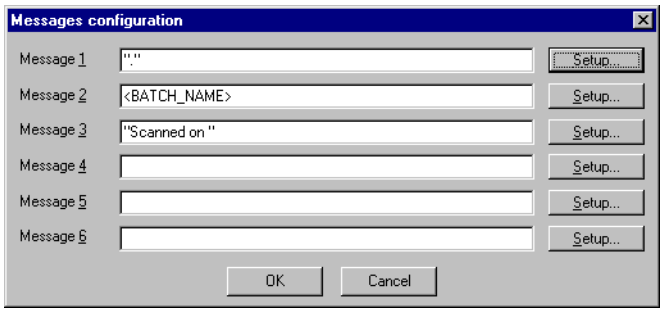
The following fields may be variable for each scanned page:

- **IA Fixed field, IA Level 3, IA Level 2, IA Level 1** make up the scanner image address. The printing format of image address fields is specified in the Image Address tab of the i800 Options dialog. If you want to print a delimited image address then you must define a Message field that contains the delimiter. For example, if you have a Level 3 image address format and you wish to print the entire image address delimited with a period (“.”), you would first define the Message 1 field with a predefined value of “.”. Then you would define the Print String to be the following:

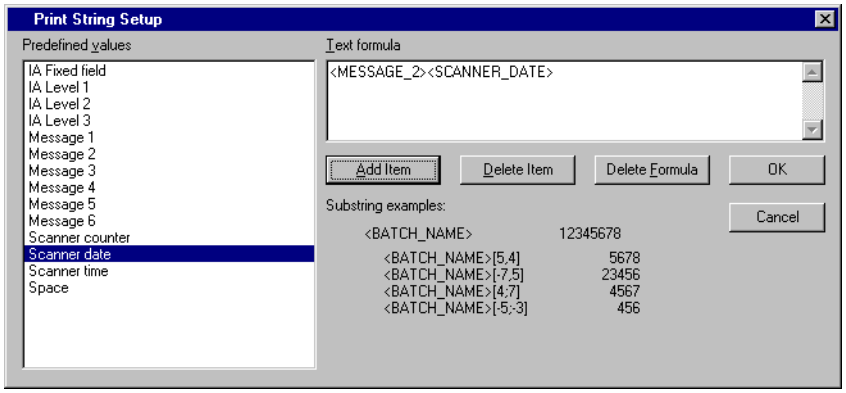
  ```
  <IA_FIXED_FIELD><MESSAGE_1><IA_LEVEL_3><MESSAGE_1><IA_LEVEL_2>
  <MESSAGE_1><IA_LEVEL_1>
  ```

- **Scanner counter and Scanner date**. The printing format of the counter and date are specified in the main dialog of the Printer tab.
- **Scanner time**. The format is HH:MM in a 24-hour time format.

Messages configuration—click on this button to define up to six message fields that are used to make up the print strings for each image level for which printing is enabled.



Specify the fixed message data to be printed in the Text box. You can either type in the message data (enclosed in double quotes “”) or you can press the Setup button to access the Print String Setup dialog.



The left side of the dialog box contains a list of pre-defined values that you can use to build the Message formula. The message data can consist of one or more pre-defined values as specified in the formula. A maximum of 20 characters is allowed per message field.

To set up a Message formula:

1. Select a pre-defined value from the list box.
2. Click **Add Item**.
3. Repeat steps 1 and 2 until your formula is complete.

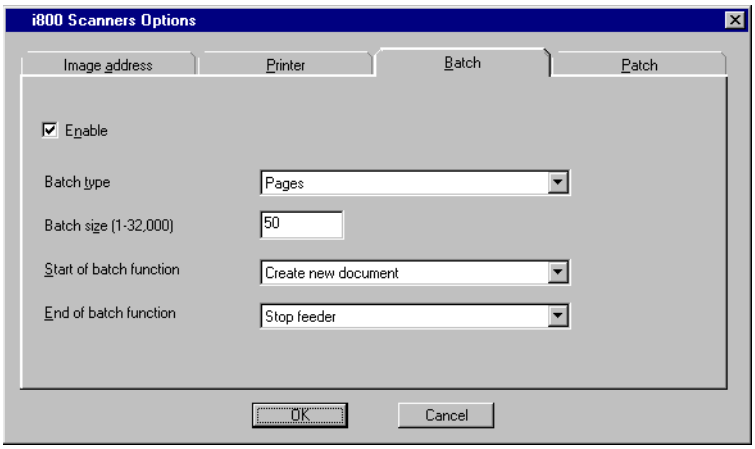
NOTES: Select **Delete Item** to delete the last pre-defined value that was added. **Delete Formula** deletes the entire Message formula.

You can also use a special substring syntax, enclosed within square brackets, to retain a certain portion of a pre-defined value (e.g., [1,4]). Refer to the “Index setup tab” section later in this chapter for the substring syntax for formula and examples.

You can also combine pre-defined values with a manually entered string value to build a formula.

Batch tab

The Batch tab allows you to define the batching function that is available in the i800 Series Scanners.



Click on the **Enable** check box to enable scanner batching. When enabled the scanner counts, a specified number of either Level 1, Level 2, or Level 3 pages. In Capture Software, Level 1 pages are referred to as Pages, Level 2 pages are referred to as Documents, and Level 3 pages are referred to as Batches. When the specified number has been reached, the scanner will perform an End of batch function. Then the counting starts all over again after the scanner performs a Start of batch function.

NOTES: Scanner batching does not actually start until the scanner is enabled within Capture Software and the scanner feeder and transport are started.

Because scanner batching is based on page levels, it really only makes sense when image addressing is also defined in scanner.

Batch type—specify the type of batching that is to be performed. Select one of the following from the drop-down list:

Pages or Level 1 pages scanned.

Documents or Level 2 pages scanned.

Batches or Level 3 pages scanned.

Batch size—specify the number of the Batch type that will be counted by the scanner to determine the end of a batch. A number from 1 to 32,000 is allowed. When the scanner is enabled, the Batch size number is displayed on the scanner operator control panel to indicate to the user that batching has been enabled.

Start of batch function—specify the action the scanner will take when a new batch is started. Possible actions:

Attach to current document—the scanner image address level is set to Level 1. The next page scanned will be attached to the current Capture Software document.

Create new document—the scanner image address level is set to Level 2. The next page scanned will create a new document within Capture Software.

Create new batch—the scanner image address is set to Level 3. The next page scanned will create a new batch within Capture Software.

End of batch function—specify the action the scanner will take when a batch has been completed. Possible actions are:

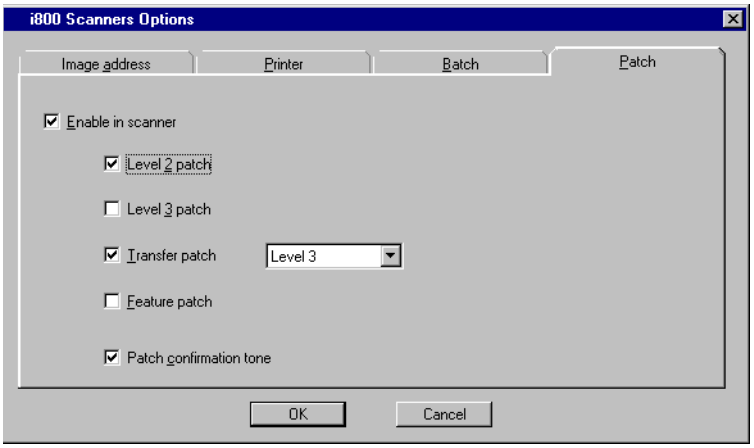
Stop feeder—the scanner feeder is stopped but the scanner remains enabled. To resume scanning, press the Green button on the scanner operator control panel.

Stop feeder and transport—the scanner feeder and transport are stopped and the scanner is disabled. Scanning must be resumed from within Capture Software.

Continue scanning and start a new batch—the scanner continues to run and the Start of batch function is automatically performed.

Patch tab

The Patch tab allows you to enable/disable patch code reading in the scanner for all of the patch code types supported by the scanner. When patch code reading is enabled in the scanner, software patch code reading in Capture Software is not allowed. Conversely, when software patch code reading is enabled in Capture Software, hardware patch code reading in the scanner may not be defined.



Click on the **Enable in scanner** check box to define hardware patch code reading.

Level 2 patch—check this option to enable Level 2 patch codes to be read by the scanner. When a Level 2 patch code is read, the scanner image address level switches to Level 2 and a new document will be created in Capture Software.

Level 3 patch—check this option to enable Level 3 patch codes to be read by the scanner. When a Level 3 patch code is read, the scanner image address level switches to Level 3 and a new batch will be created in Capture Software.

Transfer patch—check this option to enable Transfer patches to be read by the scanner. When enabled you must specify what the image address level (either Level 3 or Level 2) of the next scanned page will be after the Transfer patch. Capture Software will discard all Transfer patch pages.

Feature patch—check this option to enable all Feature patch documents to be read by the scanner. When enabled, Level 1, Level 4, and Level 6 feature patches are enabled for reading. When a feature patch page is detected, it will be attached to the current Capture Software document. At present time, Capture Software does not perform any specific processing related to the detection of feature patch documents.

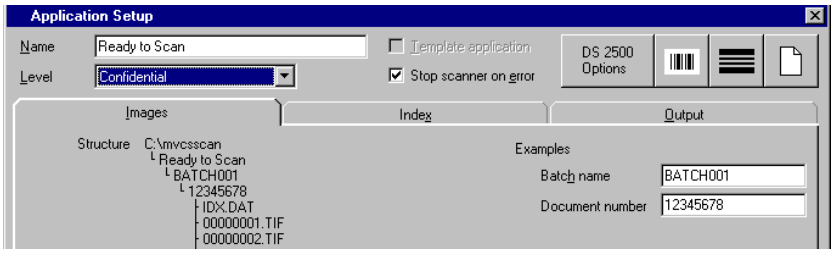
Patch confirmation tone—check this option to enable the scanner to produce a “beep” each time a patch code is read on a scanned page.

Application Setup tabs

The Application Setup window provides Images, Index, and Output tabs. The Images and Index tabs also have sub-tabs. How to use each of these tabs is described in this chapter.

Images setup tab

The Images tab provides a graphical representation of your scan structure and is updated each time a modification is made in the Batch, Document, or Native Scan structure sub-tabs.



You can change the default values in the **Batch Name Example** and **Document Number Example**. When you make a new entry in these fields, the contents in the structure are automatically updated.

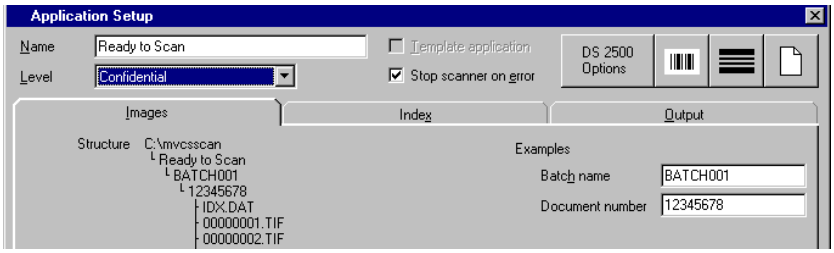
NOTE: The Batch name and Document number in the Images tab do not reflect an actual batch or document or the last batch/document used for an application. They are used for example purposes only to show what the Native Scan structure would look like for a given batch name and document number.

Batch setup

The Images - Batch tab allows you to define how the batch name is created and batch size limitations.

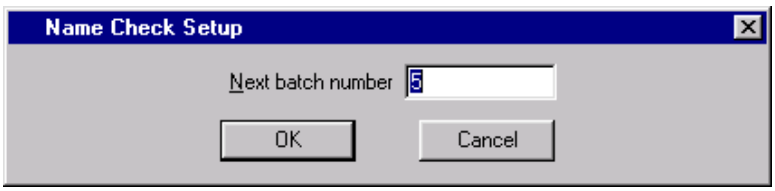
Standard Batch Name Setup

The first time a batch is created in Capture Software, you will be prompted to enter a new batch name. By default, Capture Software suggests BATCH001. If the batch name entered ends with a sequential number, this number becomes the global batch counter to be used across all applications.



Every time a batch is created for an application, Capture Software proposes the global batch counter +1 as the sequential number portion of the new batch name. For example, if the current batch name is CLAIMS09 (global batch counter 09), and a new batch is created, the new batch name by default will be named CLAIMS10.

Select **Setup** to change the global batch counter. The Name Check Setup dialog box appears.



If the number of digits in a batch name reserved for the batch counter is greater than the number of digits in the global batch counter value, Capture Software will zero-fill the global batch counter. Conversely, if the number of digits reserved for the batch counter cannot accommodate the global batch counter value, Capture Software truncates the left-most characters of the global batch counter.

New Every X Documents—if you enable this option and enter a value, Capture Software automatically creates a new batch when it reaches the specified quantity of documents in the batch.

Reset Document Counter—enabling this option resets the document number to 1 each time a new batch is started, regardless of how the new batch was created; otherwise document numbering continues to increment across batches.

Reset Image/Page Counter—when this option is enabled, the image numbering is reset to 1; otherwise, the image or page numbering continues to increment across batches. If you enable the **Reset Image/Page Counter** option on a document level, this option is not available (see the next section, “Document setup,” for more information).

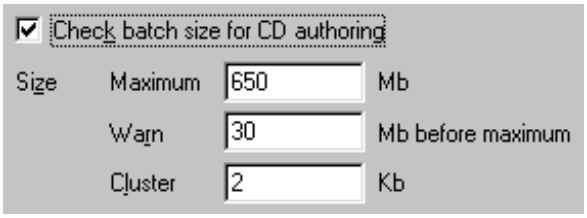
Documents – Minimum and Maximum—set the minimum required and maximum allowed quantity of documents in these fields. If you try to process a batch with fewer than the minimum number of documents, an error message will appear, allowing you to cancel batch processing or process the batch anyway.

If you scan more than the maximum allowed quantity of documents, an error message will appear. This message will appear with every additional document scanned above the maximum value set.

Entering “0” in these fields disables any checks.

Warn X Documents Before Maximum—if this option is enabled, a message will appear when it reaches the specified quantity of documents before the maximum allowed number of documents. After the first message appears, no other message will be displayed until the maximum number of documents is exceeded.

Check batch size for CD authoring—if you intend to create CDs from scanned batches, enable this option.



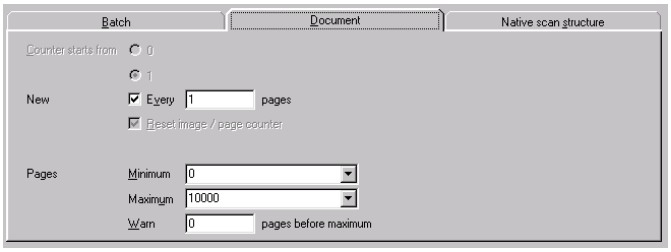
Size – Maximum X Mb—enter a value that is less than or equal to the number of megabytes one CD can hold (e.g., 650 MB for a 74-minute CD).

Size – Warn X Mb before maximum—when you are authoring CDs, enter a value in this field (20 MB by default) so Capture Software can warn you in advance and keep this amount free for any additional files; such as the CDVue viewer program and index files that will be included with the image files on the CD.

Size – Cluster X Kb—enter the cluster size of your destination media, not of the media where you temporarily store your images. The cluster size is the minimum number of bytes that will be occupied by a storage media. For CD-R for instance, each file will take a minimum of 2 KB even if the file is smaller than 2 KB. The cluster size can still be changed to make Capture Software compatible with alternatives to CD-R; such as, DVD-R or DVD-RAM.

Document setup

The Images - Document tab allows you to define document counting and document size limitations for the application.



Following is a description of the functions of the Document tab.

Counter Starts from—select one of the following options:

0 or **1**—allows you to set the starting document number for each batch. In this version of Capture Software, the document counter is always "1." If the **Reset Document Counter** option is disabled in the Images—Batch tab, then Starting Document Counter is not used.

NOTE: This option is not available when the IBS/Document CD Native Scan structure is selected.

New—select one or both of the following options:

Every X Pages—creates a new document after the specified quantity of pages. (One page corresponds with one front and one rear; if the rear or front is auto-deleted, the remaining front or rear image counts as one page.) This is useful with transaction documents where each scanned page should become a document automatically.

If this option is not enabled, Capture Software continues adding pages to the current document until a new document is created. Set the **Maximum** number of pages higher than "1" if a document occasionally has attachments.

Reset Image/Page Counter—when this option is enabled, every new document will start with image number 1; otherwise the image number continues to increment across documents.

NOTES: In this version of Capture Software, this option is always enabled. Therefore, the **Reset Image/Page Counter** will always be reset to "1" for every new document.

This option is not available when the IBS/Document CD Native Scan is selected.

Pages—select one or both of the following options:

Minimum and Maximum—enter the minimum required and maximum allowed quantity of pages (one page is one front plus one rear) in these fields. If you try to close a new document (by creating a new document) with fewer than the minimum number of pages, Capture Software will give a warning. This allows you to return to the document and continue adding pages. This option is useful in conjunction with **Stop Scanner on Error**.

If you scan more than the maximum allowed quantity of images, an error message will appear. This message will appear for every additional image scanned above the maximum value set.

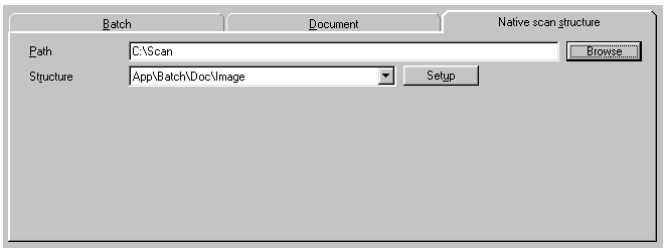
Entering 0 in these fields disables any checks.

Warn X Pages Before Maximum—if you enter a value, a message will appear when it reaches the specified quantity of pages before the maximum allowed number of pages.

Native scan structure

The Native scan structure tab allows you to select the on disk image structure after scanning. There are two Native Scan formats:

- IBS/Document CD (this is the same structure that is currently used in the High Volume Capture Software)
- App\Batch\Document\Image Structure



To define the Native Scan structure, proceed as follows.

1. Define the root drive or path where you want to scan your images. The **Path** field accepts drive letters and UNC paths. Use the **Browse** button to select a root or path.

IMPORTANT: When scanning in a multiple Capture Software workstation environment where batches must be shared across workstations, you should use a UNC path to ensure proper access by all workstations.

2. Select the Structure from the drop-down list box.

Following is information regarding the two Native Scan formats you can set up.

IBS/Document CD

This structure is optimized for CD authoring or for an application with many single-page documents.

All documents for a batch are stored in the same batch directory under the root path. The images are stored in a subdirectory structure under the batch directory based on the Capture Software document number.

For example, document number 12345678 with five images is saved as:

8\67\12345001.TIF
8\67\12345002.TIF
8\67\12345003.TIF
8\67\12345004.TIF
8\67\12345005.TIF
8\67\12345IDX.DAT (contains the document index)

In this structure, multi-page documents can contain up to 999 images. When you select **Setup**, you can indicate whether the Native Scan structure will be created in a Document CD compatible format.

IBS / Document CD Scan Structure Setup
This structure is optimized for CD authoring or for applications with many single page documents.
Multi page documents can contain up to 999 images.
Scan directly in Document CD compatible structure
OK

This Document CD compatible structure is required when using the Document CD Batch output format (see the section entitled “Output setup tab” later in this chapter). The Document CD Batch Output format makes it possible to view documents and indexes with the CDVue application.

The xxxxxIDX.DAT file contains the document index fields. The IDX.DAT contains the following information:

```
[Record Format Type];[Format Version];[Document Number];
[Page Count];[Image Count];[Field 1];[Field 2];[Field 3];...
```

The following is a sample IDX.DAT record:

```
“I01q”;”01”;”0000000001”;”0000000058”;”0000000087”;”37865”;”C0009341”
```

All values are double-quoted and are separated by a semi-colon. A double-quote contained within an index field is doubled.

Example: `...;“378””65”;...` represents the value 378”65.

Following is a description of each field in the sample IDX.DAT file:

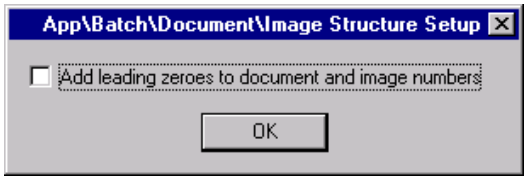
Record Format Type	I01q	Fixed length of 4 characters. A value of “I01q” indicates an IDX.DAT record.
Format Version	01	Fixed length of 2 characters. Initially, will always be “01”.
Document Number	0000000001	Fixed length of 10 characters, zero-filled.
Page Count	0000000058	Fixed length of 10 characters, zero-filled. Number of pages in the document.
Image Count	0000000087	Fixed length of 10 characters, zero-filled. Number of images in the document.
Index Fields		The next fields (37865 and C0009341) are the index values.

App\Batch\Document\Image Structure

This is the most simple and straightforward structure. All documents are located in a directory equal to the Batch name and all image files are located in a directory equal to the Document number.

This structure does not have the 999-page limitation that is inherent to the IBS/ Document CD structure. It is ideal for large multi-page documents.

When you select **Setup**, you can select whether leading zeros will be added to document and image numbers.



By default, leading zeros will not be added.

Example

Document 12345678 with three pages (each page has a front and rear) in Batch B0001 and **Reset image/page counter** enabled is stored in following structure:

B0001\12345678\1.TIF
B0001\12345678\2.TIF
B0001\12345678\3.TIF
B0001\12345678\4.TIF
B0001\12345678\5.TIF
B0001\12345678\6.TIF
B0001\12345678\IDX.DAT

The IDX.DAT file contains the document indexes. The IDX.DAT contains following information:

```
[Record Format Type];[Format Version];[Document Number];
[Page Count];[Image Count];[Field 1];[Field 2];[Field 3];...
```

The following is a sample IDX.DAT record:

```
“I01q”;”01”;”0000000001”;”0000000058”;”0000000087”;“37865”;”C0009341”
```

All values are double-quoted and are separated by a semi-colon. A double-quote contained within an index field is doubled.

Example: `...;“378””65”;...` represents the value 378”65.

The following is a description of each field in the sample IDX.DAT file:

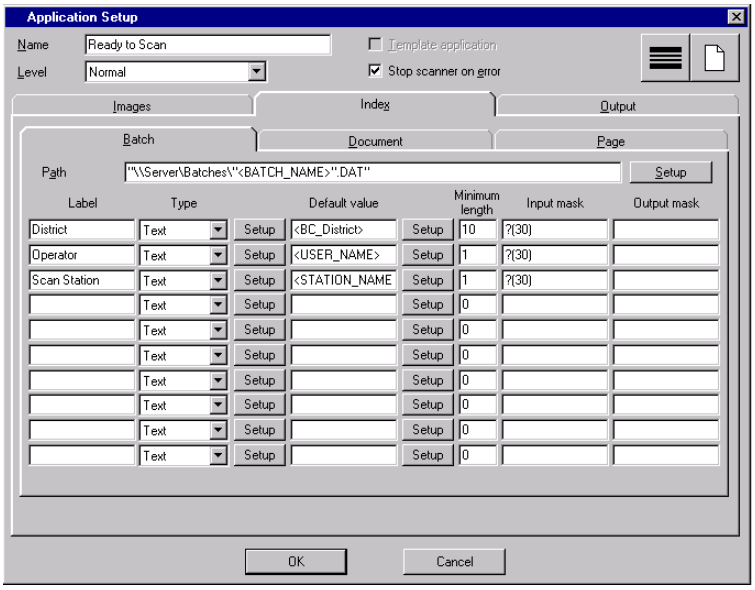
Record Format Type	I01q	Fixed length of 4 characters. A value of “I01q” indicates an IDX.DAT record.
Format Version	01	Fixed length of 2 characters. Initially, will always be “01”.
Document Number	0000000001	Fixed length of 10 characters, zero-filled.
Page Count	0000000058	Fixed length of 10 characters, zero-filled. Number of pages in the document.
Image Count	0000000087	Fixed length of 10 characters, zero-filled. Number of images in the document.
Index Fields		The next fields (37865 and C0009341) are the index values.

Index setup tab

The Index tab allows you to define index fields at two different levels: batch and document. Page level values are not yet supported.

Batch setup

The Index - Batch tab allows you to define the index information you want to collect at the batch level.

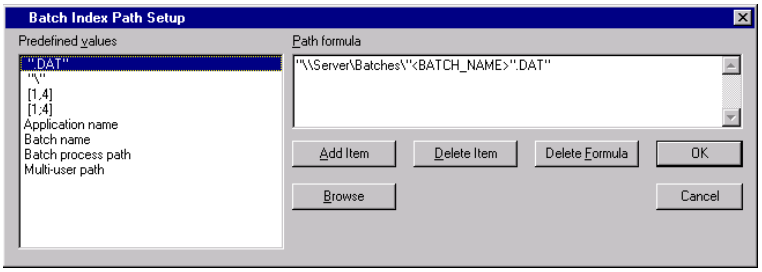


To set up batch level indexing:

1. In the **Path** field, enter the location and name of the batch index file that will be created after processing a batch.

   or

   Select **Setup** to access a list of default or pre-defined values that you can use to build the path.



Batch Process path is the root directory where the batch will be located after being processed. For the Release Batch Output format the Batch Process path is the Native Scan Structure path followed by the Application Name subdirectory (e.g., c:\Scan\Ready to Scan).

For all other Batch Output formats, the Batch Process path is equivalent to path specification defined in the Output tab of Application Setup (e.g., c:\Batches).

Multi-user path is a shared folder location where application and page template files are located. The installation default is c:\Kodak\XVCS. To change the multi-user path, go to the Program Properties dialog box as described in Chapter 11, *System Administration.*

To set up your path formula:

- Select a pre-defined value from the list box. After you select an item, click **Add Item**.

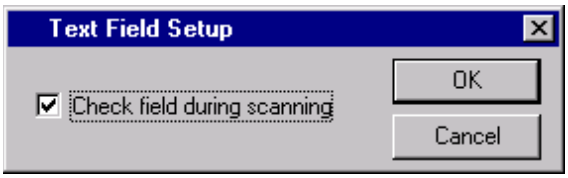
  Continue to add all pre-defined values until your path formula is complete.

- Click **OK** when the path formula is complete.

NOTES: Selecting **Delete Item** deletes the last pre-defined value added. **Delete Formula** deletes the entire path formula.

In addition to default values, the pre-defined values list contains syntax strings to help build a fully qualified path and file name (i.e., "\" and ".DAT"). You can also use a special substring syntax, enclosed within square brackets, to retain a certain portion of a default value (e.g., [1, 4]). See the section entitled "Substring syntax" for formats and examples.

2. For each index field you wish to define, enter a description in the Label column.
3. Select **Text**, **Date/Time**, or **Number** as the field type from the drop-down list box in the Type column.
4. Select the **Setup** button to the right of the Type field to indicate whether the index field value is checked during scanning.



When an index field is checked during scanning, the field's default value is audited against the Minimum Length and Input Mask requirements for the field. If the audit fails, you will be prompted during scanning to correct the field value. If all defined index fields are not checked during scanning, scanning is not interrupted. You must access the Batch Index Fields dialog box (**Edit Batch fields** option from the Index menu) to correct any invalid index field values.

5. Enter a **Default Value**, if applicable.
   or
   Select the **Setup** button to the right of the Default Value field to access a list of default system values.

   See the section entitled "Default values" for a complete description on how to select and define a default value.

6. Enter the **Minimum Length** of the index field. If the index field is mandatory, then Minimum Length should be greater than 0 (zero).

7. Enter the **Input Mask** of the index field. The input mask defines the syntax or audit rules required for the field.

   See the section entitled “Mask syntax” for mask values and examples.

NOTE: Minimum Length and Input Mask are used together to determine what can be entered for an index field. For example, a Minimum Length of “4” and an Input Mask of “X(9)” means that the index field must contain between four (4) and nine (9) alphanumeric characters.

8. Enter the **Output Mask** of the index field.

   The output mask defines the output format of the field. This is primarily useful for formatting date fields or fields that have delimiter requirements; such as, social security or telephone numbers. For example, for a date field in month, day, year format:

   Input mask MMDDYY

   Output mask MM”/”DD”/”YY

NOTE: In this version of Capture Software, defining an output mask is available only for Date/Time fields.

9. Click **OK** when you are finished filling out the field information at the batch level.

   The batch index file, in addition to batch index fields, also includes the following statistical information about the batch so even if there are no batch index fields, a batch index file will still be created:

   - # of front/rear images in the batch
   - # of front/rear images rescanned
   - # of front/rear blank images removed
   - # of front/rear images deleted
   - # of documents in the batch
   - Document number of first document in the batch
   - Document number of last document in the batch

   The batch index file also contains information regarding the number, name, type and mask of the batch and document indexes defined for the application.

The following is a sample of a batch index file:

```
[Properties]
Version=1
BatchPath=C:\Batches\Batch008
CreationDate=1998:11:23
CreationTime=17:11:47
ProcessStartDate=1998:11:24
ProcessStartTime=16:44:44
User=XVCS
WorkStation=Kodak Scanner

[BatchStatistics]
FrontsInBatch=9
FrontsRescanned=1
FrontsBlanksRemoved=0
FrontsDeleted=1
RearsInBatch=9
RearRescanned=1
RearsBlanksRemoved=0
RearsDeleted=0
FirstDocument=1
LastDocument=2
DocumentCount=2

[BatchFields]
Count=2
Label1=Box #
Type1=TNBR
Mask1=99
Label2=Bin Number
Type2=TTXT
Mask2=X(3)

[DocumentFields]
Count=2
Label1=Invoice Number
Type1=TTXT
Mask1=9(7)
Label2=Customer ID
Type2=TTXT
Mask2=?(6)

[PageFields]
Count=0

 [BatchIndex]
Field1=27
Field2=3B
```

To disable the creation of the batch index file, clear the entry in the Path field.

Document setup

The Index - Document tab allows you to define the index information you want to collect at the document level.

The document index is stored in one file per document and is located in the same directory as the document images. The name of the file depends upon the selected Native Scan structure (**xxxxxIDX.DAT** for the **IBS/Document CD** structure and **IDX.DAT** for the **App\Batch\Document\Image** structure). A Batch Output format, such as single-page TIFF, can convert the separate .DAT files into one single index file.

Index file format

The Document index has the following format (that can be converted with a Batch Output format):

```
[Record Format Type];[Format Version];[Document Number];
[Page Count];[Image Count];[Field 1];[Field 2];[Field 3];...
```

The following is a sample document index file:

```
“I01q”;”01”;”0000000001”;”0000000058”;”0000000087”;”37865”;”C0009341”
```

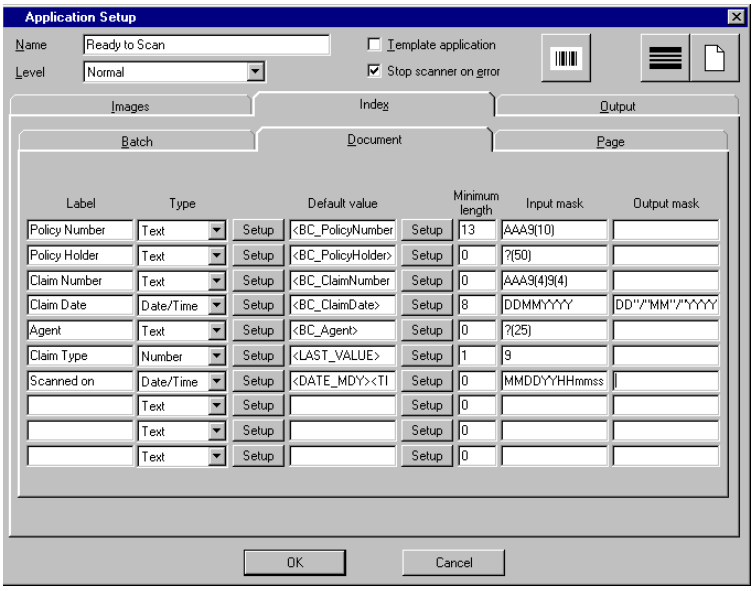
All values are double-quoted and are separated by a semicolon. A double-quote contained within an index field is doubled.

Example: `...;“378””65”;...` represents the value 378”65.

The following is a description of each field in the sample IDX.DAT file:

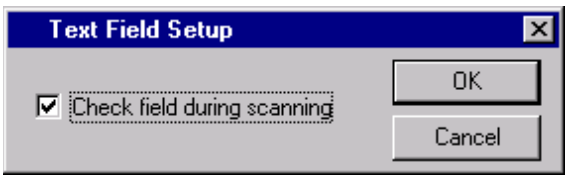
Record Format Type	I01q	Fixed length of 4 characters. A value of “I01q” indicates an IDX.DAT record.
Format Version	01	Fixed length of 2 characters. Initially, will always be “01”.
Document Number	0000000001	Fixed length of 10 characters, zero-filled.
Page Count	0000000058	Fixed length of 10 characters, zero-filled. Number of pages in the document.
Image Count	0000000087	Fixed length of 10 characters, zero-filled. Number of images in the document.
Index Fields		The next fields (37865 and C0009341) are the index values.

Every document corresponds with one index file.



To set up document level indexing:

1. For each index field you wish to define, enter a description in the **Label** column.
2. Select **Text**, **Date/Time**, or **Number** as the field type from the drop-down list box in the Type column.
3. Select the **Setup** button to the right of the Type field to indicate whether the index field value is checked during scanning.



When an index field is checked during scanning, the field's default value is audited against the Minimum Length and Input Mask requirements for the field. If the audit fails, you will be prompted during scanning to correct the field value. If all defined index fields are not checked during scanning, scanning is not interrupted. You must access the Document Index Fields dialog box (**Edit Document fields** option from the Index menu) to correct any invalid index field values.

4. Enter a **Default Value**, if applicable.
   or
   Select the **Setup** button to the right of the Default Value field to access a list of default system values.

   See the section entitled “Default values” for a complete description on how to select and define a default value.

5. Enter the **Minimum Length** of the index field.

   If the index field is mandatory, then Minimum Length should be greater than 0 (zero).

6. Enter the **Input Mask** of the index field.

   The input mask defines the syntax or audit rules required for the field. See the section entitled “Mask syntax” for examples.

NOTE: Minimum Length and Input Mask are used together to determine what can be entered for an index field. For example, a Minimum Length of “4” and an Input Mask of “X(9)” means that the index field must contain between four (4) and nine (9) alphanumeric characters.

7. Enter the **Output Mask** of the index field.

   The output mask defines the output format of the field. This is primarily useful for formatting date fields or fields that have delimiter requirements; such as social security or telephone numbers. For example, for a date field in month, day, year format:

   Input mask MMDDYY

   Output mask MM”/”DD”/”YY

   NOTE: In this version of Capture Software, defining an output mask is only available for the Date/Time fields.

8. Click **OK** when you are finished filling out the field information at the document level.

Page setup

In this version of Capture Software, page level indexes are not available.

Converting Date (Year) value to Output Mask

When converting Date field values that include the Year (input according to the Input Mask) to meet Output Mask requirements, Capture Software does the following:

Four-character year values are converted to two-character year values by truncating the century of the year. For example:

Input Mask	Output Mask
YYYYMMDD	**MM“/”DD”“/”YY**
19981220	12/20/98
20000519	05/19/00

Two-character year values are converted to four-character year values using the following assumptions/procedure:

A valid century range of year values is first determined based on the year of the current system date. For the first year, 95 is subtracted from the current system year. For the last year, 4 is added to the current system year.

Current System Year	Valid Century Range
1998	1903 to 2002
2000	1905 to 2004

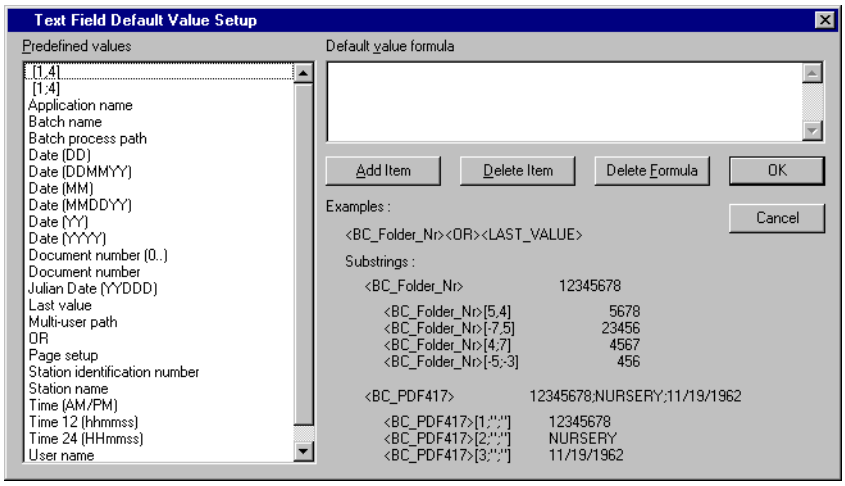
The two-character year is then converted to a four-character year based on the valid century range of years. For example, assuming the current system year is 1998, the following conversions would take place:

Input Mask	Output Mask
MMDDYY	**MM“/”DD“/”YYY**
032305	03/23/1905
122099	12/20/1999
063001	06/30/2001

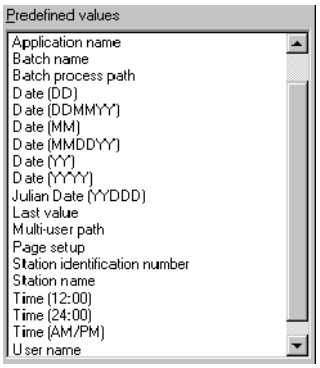
If this year conversion assumption is incorrect for your target imaging system and results in incorrect output date values, then the Input Mask for the Date field should be redefined to include a four-character year.

Default values

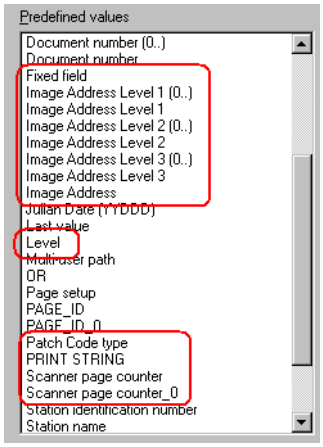
Assigning default values to index fields will automate the indexing that is done during scanning. To define a default value for an index field, select the **Setup** button to the right of the Default Values field. The Text Field Default Value Setup dialog box for the corresponding field type appears.



The left side of the dialog box contains the list of default or pre-defined values that you can use to build the default value formula. The following default values are possible.



For all high volume scanners, including the i800 Series Scanners, the following additional default values (highlighted below) are possible:



For *Text* fields, all default values listed are available. For *Date/Time* fields, only the fields that relate to the date and time values and Last value are available. For *Number* fields, only **Document Number** and **Last value** are available. In addition, string values, such as “PRIORITY” or “CLAIM,” can be manually entered for a default value.

NOTES: When **Last value** is selected, Capture Software automatically uses the last assigned value for a field from the previous batch (for batch indexes) or document (for document indexes) whenever a new batch or document is created. This is useful, for example, in a backlog application, when you scan folders of documents with the same date. When you start scanning, enter the date once and it remains the same for every new document until you change it.

The time default values: **Time (12)** and **Time (24)** include the hour, minutes and seconds for a total of six characters.

The **Document Number** default values assign the number of the current Capture Software document to the index field. The value can either be of varying length or padded with leading zeroes to form an eight-character document number. For example:

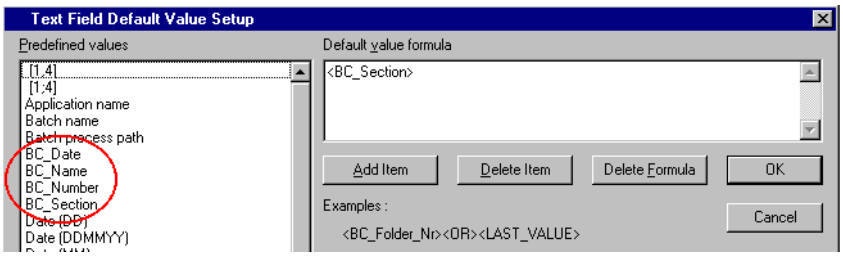
Default Value	**Result**
Document Number	256
Document Number (0…)	00000256

The **Image Address Level** default values assign the Image Address value of the first scanned and stored page in the current document to the index field. The value can be either of varying length or padded with leading zeroes to form a nine-digit number.

Default values are assigned during scanning when a new batch or document is created. If you decide to change your Application Setup and add index fields that contain default values after a batch of documents has already been created, the default values will not be assigned to the existing batch or documents, and new index fields will not have a value.

Assigning bar codes to index fields

When bar codes are defined for the application, they become available for indexing in the default value list.



The default value name for the bar code is BC_[Label] where Label is the name specified when defining the bar code zone. Batch level bar codes are available for batch and document index fields. Document level bar codes are only available for document index fields.

To assign a bar code to an index field, select the appropriate bar code default value as the default value for the index field. The entire bar code or a portion of the bar code can be used (see the section entitled “Substring syntax” for details). As a result, different portions of a single bar code can be used as default values for more than one index field.

NOTE: Bar code detection and indexing are not available for Low Volume Capture Software *Lite*.

Bar codes and Last Value

In file folder applications it is often customary to use bar code header sheets to index all of the documents in the folder. The lead document contains all bar codes and subsequent documents may contain no bar codes or a subset of the bar codes. To index documents in these applications, an index field is either assigned the bar code (when it exists) or the value from the previous document. The previous or last value keeps getting assigned until the next bar code header sheet is scanned.

To accomplish this indexing scheme in Capture Software, the default value must either be the bar code or **Last Value**. This is specified by using the “or” symbol as in the following example:

<BC_NAME><OR><LAST_VALUE>

Default value formula

A default value for a field can consist of one or more default values as specified in the Default value formula. To set up your Default value formula:

1. Select a pre-defined value from the list box.
2. Click **Add Item** after you select an item.
3. Continue to add all pre-defined values until your default value formula is complete.
4. Click **OK** when the default value formula is complete.

NOTES: Selecting **Delete Item** deletes the last pre-defined value added. **Delete Formula** deletes the entire Default value formula.

You can also use a special substring syntax, enclosed within square brackets, to retain a certain portion of a default value (e.g., [1,4]). See the next section, “Substring syntax,” for formats and examples.

Substring syntax

You can use a special syntax enclosed within square brackets to retain a certain portion of the default value. The syntax immediately follows the value you want to change.

The system can have two formats:

- comma delimiter: [START_POSITION,NUMBER_OF_CHARACTERS]

  or

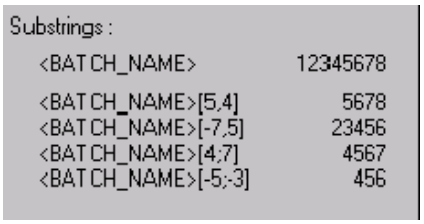
- semicolon delimiter: [START_POSITION;STOP_POSITION]

When START_POSITION is a positive value, the position is determined by counting from the left side. When START_POSITION is a negative value, the position is determined by counting from the right side.

The same is valid for STOP_POSITION in the semicolon format.

Negative NUMBER_OF_CHARACTERS values are not allowed. None of the values can equal 0 (zero).

Following is an example of a Capture Software Default Value dialog box:



Test example

Capture the first five characters of the Batch name and the last four characters of the Station ID in one field.

Solution

<BATCH_NAME>[1;5]<STATION_ID>[-4,4]

If the Batch name is INSUR035 and the Station ID is T0015, the result is INSUR0015.

Special syntax for PDF417 bar codes

When using PDF417 bar codes, a single bar code can be used to contain all the index data for a document or batch. To facilitate indexing with PDF417 bar codes, a special substring syntax has been added in Capture Software:

[# OF DATA ELEMENTS IN BAR CODE; DELIMITER USED TO SEPARATE DATA ELEMENTS]

The delimiter can either be the actual character symbol or its ASCII decimal numeric value (for symbols that cannot be printed or typed). The delimiter must be contained in double quotes (“).

For example, if a PDF417 bar code contains the following data:

12345678*NURSERY*11/19/1962

the following could be used as default values for the three index fields of data:

Default Value	Actual Value
<BC_PDF417>[1; “*”]	12345678

Returns the 1st element of the bar code string delimited by an asterisk.

<BC_PDF417>[2; “42”]	NURSERY

Returns the 2nd element of the bar code string delimited by an asterisk (42 is the ASCII decimal value for asterisk).

<BC_PDF417>[3; “*”]	11/19/1962

Returns the 3rd element of the bar code string delimited by an asterisk.

NOTE: Bar code detection and indexing are not available for Low Volume Capture Software *Lite*.

Mask syntax

Following are mask syntax values and some examples of how to use them.

A	Strict alpha (no symbols such as: - _ ( ) + … are allowed).
9	Strict numeric (no symbols such as - _ ( ) + … are allowed).
X	Alpha and/or numeric (but no symbols such as - _ ( ) + … are allowed).
?	Anything (including special symbols and spaces).
D,M,Y	Date characters. The mask for a Julian date is YYDDD.
HH,hh,mm,ss,tt	HH = 24 hours, hh = 12 hours, mm = minutes, ss = seconds, tt = AM/PM
“FIXED TEXT”	Everything between double quotes is a fixed required value.

NOTE: The A and X mask syntax characters can be lower- or uppercase. The date mask syntax characters (D,M,Y) must be uppercase.

Example

9(4) or 9999	for a four-character numeric field.
A(4) or AAAA	for a four-character alphabetic text field.
MMDDYY	for a six-character date field in month, day, year format.
999”-“ 99”-“ 9999	for a delimited Social Security Number.

NOTES: If the index field value must exactly match the **Input Mask**, make sure that the **Minimum Length** specified is equal to the number of characters represented by the Input Mask.

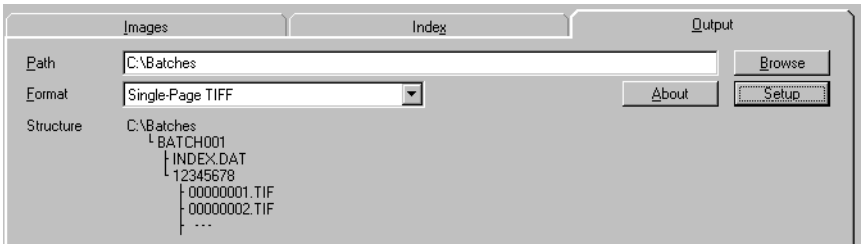
For example, if the Input Mask is AA9(6), set the Minimum Length to 8.

Output setup tab

The Output tab of Application Setup allows you to select the Batch Output format for the application.

When batches are processed (by clicking the **Process** button or selecting the **Batch>Process** option from the main Capture Software window), the index data and images for the batch are converted and/or transferred according to the selected Batch Output format. Capture Software contains its own list of Batch Output formats as documented later in this section. Integrators can also develop their own index and image conversion routines based on the Capture Software Batch Output format API (documented and located in DOCS\EN\XVCSBAPI.DOC on the Capture Software and Scanner 1500 and Scanner 2500 product CDs.).

NOTE: All of batch output formats are available and supported in all of the Capture Software products for all Kodak scanners.



Following describes the functions of the Output tab.

Path—fill in the starting or root path where you want to transfer the batch after batch processing is completed. This field is not used and is unavailable when the Document CD or Release Batch Output formats are selected.

IMPORTANT: In a multiple scanner environment where processed batches for an application must be transferred to the exact same physical root path, you should use a UNC path (e.g., \\server\batches) to ensure proper access by all Capture Software workstations.

Format—select the correct Batch Output format from the drop-down list box.

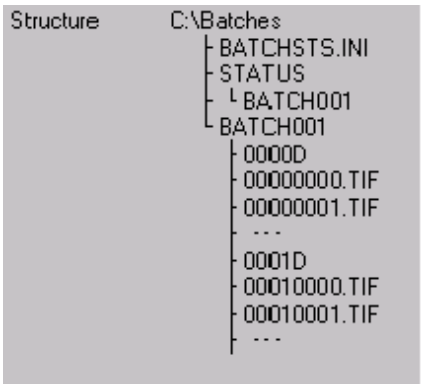
About—accesses a Readme text file describing the Batch Output format.

Setup—accesses a setup dialog box specific to the Batch Output format selected. After selecting and setting up a Batch Output format, the sample structure of the Batch Output format that is displayed in the Output tab is automatically updated.

Batch Index (Eastman Imaging for Unix)

When the Batch Index (Eastman Imaging for Unix) Batch Output format is selected, the image output is converted to Batch Index (Eastman Software, Inc.) format (Version 1.3 for Imaging for UNIX; Version 1.4 for Imaging for NT) during batch processing. No setup is required.

The Batch Index output structure after processing looks like this:



The BATCHSTS.INI file is created/updated as necessary each time a batch is processed. The following is an example BATCHSTS.INI file for the sample Batch Index Output structure above:

[Batch Status Dir Path]

Dir Path=C:\Batches\status

The batch files (which have the same name as the Capture Software batch names; BATCH001 in the sample structure above) created in the STATUS directory contain two sections: [Current Status] and [History].

The Status entry of the [Current Status] section may have the following values:

0 : when the batch is being created (processed)

20 : when the batch is fully processed

The [History] section contains two entries:

0=Created XVCS 1998:07:28 19:20:19 when the batch is being created, (i.e., Status=0).

1=Accepted XVCS 1998:07:28 19:20:29 when the batch is processed, (i.e., Status=20).

The following is an example batch file for a batch that has been fully processed:

```
[Current Status]
Status=20
Operator ID=XVCS
[History]
0=Created      XVCS  1998:02:20  08:10:03
1=Accepted     XVCS  1998:02:20  08:10:51
```

For each document exported, one index file is created. The file name is the document number followed by a “d” and no extension. The document number is the document number given during scan, minus one. Up to 9999 documents may be exported (i.e., documents 0 to 9998). Each document contains up to 999 images.

The image number is the image number given during scan, minus one (i.e., image 0 to 998).

All document level index fields, and their associated values, defined for the application (Index - Document tab of Application Setup) are written to the document index files. The field names written to the index files are the Label names of the Capture Software document index fields.

The following is an example document index file where the Document Index field labels are Customer number and Invoice:

```
[ScanData]
Customer number=72543
Invoice=C0009341
```

For information about the content/structure of the BATCHSTS.INI file, the batch status files, and the document index files, refer to the Batch Index documentation.

Document CD

The Document CD Batch Output format does not copy image files but instead just adds to the Native Scan structure those additional files and subdirectories that are required to author a Document CD. A Document CD is a Kodak standard directory structure containing single-page TIFF image files and document index data, along with an on-board image retrieval and display application. Capture Software generates the same Document CD format that is currently produced by the IBS/PC Plus and HVCS products.

The Document CD Batch Output Format requires that the Native Scan structure for the application is set to **IBS/Document CD**. In addition, the option **Scan directly in Document CD compatible structure** must be enabled. If this Native Scan structure option is not enabled, an error message will appear when you try to save the application setup.

A Document CD consists of the following directory structure:

```
DOC_CD
    |
    |-DATA
    |
    |-DATABASE

APP_SPEC
    |
    |-XFERDATA
    |
    |-CDVUE
```

DOC_CD\DATA contains the image files for the batch. When images are originally scanned, Capture Software stores the images directly to this directory in the Native Scan structure (also referred to as the Scan Cache). The path for the Scan Cache is indicated in the Native Scan structure tab of Application Setup. Each Capture Software batch has its own Document CD directory structure in the Scan Cache. When the batch is processed, the images remain in this directory.

DOC_CD\DATABASE contains the document index data for all of the documents in the batch. The document index files are created when the batch is processed.

APP_SPEC\XFERDATA contains an optional index import file for IBS/PC Plus. When configuring the Document CD Batch Output format, you indicate whether you want to create an IBS/PC Plus-compatible CD. The IBS/PC Plus index import file is created when the batch is processed. The name of the file is <Capture Software Batch Name>.EX3.

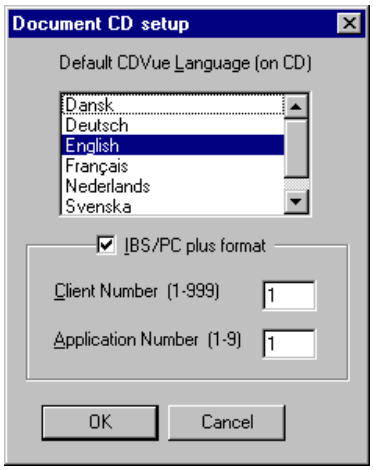
APP_SPEC\CDVUE contains the CDVue which is the on-board image retrieval and display application. The CDVue application is currently a 16-bit application and should run without any problems under Windows NT. CDVue can either be run directly from the CD by running CDVUE.EXE from the CDVUE subdirectory or can be run locally from your PC. To install a local copy of CDVUE, run SETUP.EXE from the CDVUE subdirectory.

NOTES: HVCS 16-bit and IBS/PCPlus include both CDVue and the *Kodak Optistar* CD Image Retrieval Applications on Document CDs. Capture Software includes just the CDVue application.

The CDVue application currently does not support color image display.

Document CD Application Setup

After configuring the Native Scan structure for Document CD compatibility, select **Setup** in the Application Setup - Output tab to further define the Document CD Batch Output format.



Select the **Default CDVue Language** (on CD). CDVue is available in Brazilian Portuguese, Danish, Dutch, English (default), French, German, Italian, Latin American Spanish, and Swedish. The language selected is the language that is run when CDVue is run directly from a Document CD. In addition, the language selected will be the default language to be installed when you install a local copy of CDVue on your PC.

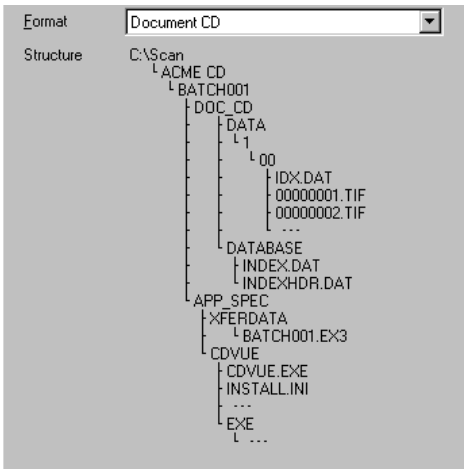
Enable the **IBS/PC plus format** option to create IBS compatible CDs. An index import file will be created on the CD that will enable the indexes for the documents on CD to be imported into an IBS/PC Plus system. When you enable this option, you must also enter the correct Client and Application Number of the corresponding IBS/PC Plus application.

Make sure you enable the **Check batch size for CD authoring** option in the Images - Batch tab of Capture Software Application Setup. This will prevent overflowing the maximum capacity of a writable CD.

Finally, define one or more document index fields as required.

Authoring a Document CD

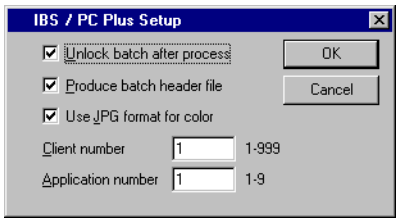
Once you have finished scanning documents into a batch, process the batch to finalize the Document CD structure. For example, if the Scan Cache for the application is C:\SCAN, the Capture Software application name is “Acme CD,” and the Capture Software batch name is BATCH001, the directory structure will be the following:



To create a CD, transfer the contents of the Capture Software batch name directory (e.g., BATCH001) to a writable CD. Do not include the batch name directory itself. Capture Software does not include CD authoring software. Use a CD authoring package of your choice to create the actual Document CD.

IBS / PC Plus

The IBS / PC Plus output format is one of the standard Capture Software Batch Output formats. Use this format when producing batches that will subsequently be imported into an IBS / PC Plus system. This batch output format is also compatible with the *Kofile Visual Information System* (KoVIS). Select the **Setup** button for additional settings.



From the IBS / PC Plus Setup dialog box, you can specify the correct IBS Client and Application number. By default the Client number and Application number are 1.

The **Unlock batch after process** option prevents IBS users from working with a batch during batch transfer. This option creates and updates an entry for the batch in the BATCHES.INI file during batch processing. This option should remain enabled.

The **Produce batch header file** option passes information about the batch to IBS / PC Plus. Included are the first and last document number and the number of documents and images in the batch. For IBS / PC Plus systems that are at Version 2.0 or higher, this option should remain enabled. For IBS / PC Plus systems at Version 1.x, this option must be disabled.

The **Use JPG format for color** option will save color images scanned with a Kodak color scanner as JPEG files (with a “JPG” file extension). Bitonal images are saved as TIFF G4 files (with a “TIF” file extension). For example, if you scan two pages in dual stream with an i840 Scanner into Document 1, this batch output can be produced:

BATCHES\BATCH001\1\00\00000001.JPG
BATCHES\BATCH001\1\00\00000002.TIF
BATCHES\BATCH001\1\00\00000003.JPG
BATCHES\BATCH001\1\00\00000004.TIF
BATCHES\BATCH001\1\00\00000005.JPG
BATCHES\BATCH001\1\00\00000006.TIF
BATCHES\BATCH001\1\00\00000007.JPG
BATCHES\BATCH001\1\00\00000008.TIF

If **Use JPG format for color** is not checked, any color images will be saved as TIFF files with JPEG compression.

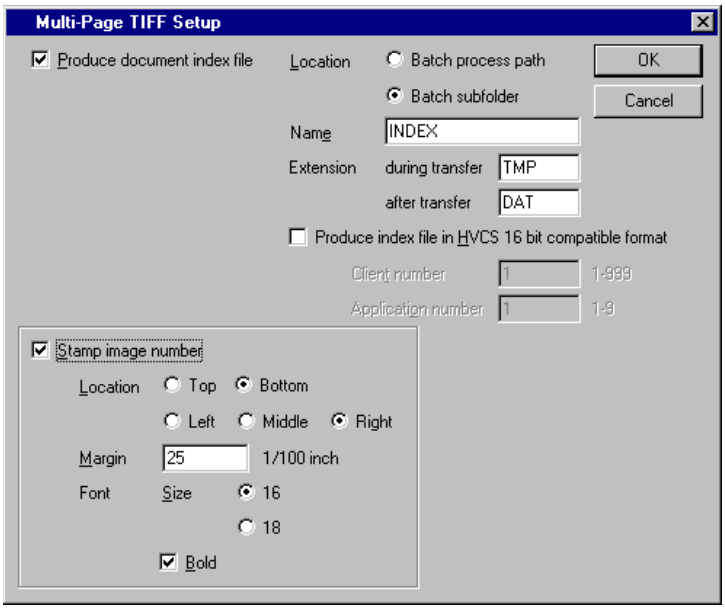
When a batch is processed, the images and index data are stored in a subdirectory equivalent to the Capture Software batch name under the path specified in the Capture Software Output tab of Application Setup. This root path (by default C:\BATCHES) must be the same as specified in the IBS.INI file (“BATCHES=” entry).

Multi-page TIFF

The Multi-Page TIFF Batch Output format transfers the entire batch to a single batch subdirectory. The subdirectory name is the batch name and is located under the root path specified in the Output tab. All images of each document in the batch are written to a single multi-page TIFF file. The TIFF file name is the Capture Software document number and is padded with leading zeroes to form an 8-character file name. All files have a “TIF” extension.

When used with a Kodak color scanner, this batch output format creates multi-page TIFF files that can contain both JPG and G4 bitonal images. The free Imaging for Windows viewer that is pre-installed in Windows can be used to view these files.

Select the **Setup** button to further define the Multi-Page TIFF Batch Output format.



Produce document index file—by default, Capture Software produces a document index file. The document index file indicates the link between the original Capture Software document number (which also is the name of the multi-page file) and the document index information. By default, it is named INDEX.DAT and is located in the same batch subdirectory as the images. The Name and Extension, however, are configurable. If the Location is defined as the Batch process path, then the document index file is created in the root output path and is named after the batch name. The document index file contains one entry for each document in the batch.

Uncheck **Produce document index file** if you do not want a document index file to be produced when processing a batch.

When producing a document index file, the format of the index file can optionally be produced in HVCS 16-bit (Version 2.x) format. This option can facilitate the upgrade from HVCS 16-bit to Capture Software 32-bit by keeping the batch output produced for the target imaging system unchanged.

The document index file is a semi-colon (;) delimited file that contains one record or line for each document in the batch. Each field in a record is enclosed in double quotes (“”). The format is as follows:

```
[RECORD FORMAT TYPE];[FORMAT VERSION];[DOCUMENT NUMBER];
[# OF IMAGES];[INDEX FIELD 1];[INDEX FIELD 2];...
```

Record Format Type	Fixed length of four characters. Is always “I04t”.
Format Version	Fixed length of two characters. Initially, is always “01”.
Document Number	Capture Software document number. Fixed length of ten characters, zero-filled. Indicates name of multi-page TIFF file.
# of Images	Number of images in the multi-page file. Fixed length of ten characters, zero-filled.
Index Fields	Index values for the document index fields in the order that they are defined in Index Setup. If an index field does not have a value, then a null character is stored in its place.

The following is an example of an INDEX.DAT file for a batch containing three documents (with four images per document) for an application configured with three document indexes. The second index field is not required and is not provided:

```
“I04t”;”01”;”0000000001”;”0000000004”;”C12345”;;”12201997”
“I04t”;”01”;”0000000002”;”0000000004”;”B23456”;;”11171996”
“I04t”;”01”;”0000000003”;”0000000004”;”H11122”;;”01091998”
```

Stamp image number—you can also stamp each image in the multi-page TIFF file with the image sequence number by enabling this option. This image stamp physically modifies the image file and therefore is not an image annotation or bookmark.

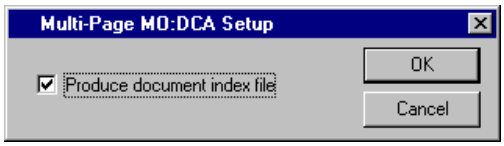
The image sequence number always starts at “1” for each multi-page TIFF document. You can further specify the location of the image sequence number, the margin from the edge of the image, the font size (16 pt or 18 pt only), and whether or not a bold font style will be used.

IMPORTANT: Stamp image number does not work on color images and will actually corrupt color image files.

Multi-page MO:DCA

The Multi-page MO:DCA Batch Output format transfers the entire batch to a single batch subdirectory. The subdirectory name is the batch name and is located under the root path specified in the Output tab. All images of each document in the batch are written to a single multi-page MO:DCA (Mixed Object Document Content Architecture) file to be used in an IBM ImagePlus imaging system. The MO:DCA file name is the Capture Software document number and is padded with leading zeroes to form an eight-character file name. All files have a “MOD” extension.

A document index file (INDEX.DAT) is also created in the batch subdirectory and provides the link between the original Capture Software document number (which is also the name of the multi-page file) and the document index information (if defined). Select **Setup** in the Application Setup - Output tab to disable or enable the production of a document index file.



The document index file is a semi-colon (;) delimited file that contains one record or line for each document in the batch. Each field in a record is enclosed in double quotes (“”). The format is as follows:

```
[RECORD FORMAT TYPE];[FORMAT VERSION];[DOCUMENT NUMBER];
[# OF IMAGES];[INDEX FIELD 1];[INDEX FIELD 2];...
```

Record Format Type	Fixed length of four characters. Is always “I04t”.
Format Version	Fixed length of two characters. Initially, is always “01”.
Document Number	Capture Software document number. Fixed length of ten characters, zero-filled. Indicates name of multi-page MO:DCA file.
# of Images	Number of images in the multi-page file. Fixed length of ten characters, zero-filled.
Index Fields	Index values for the document index fields in the order they are defined in Index Setup. If an index field does not have a value, then a null character is stored in its place.

The following is an example of an INDEX.DAT file for a batch containing three documents (with four images per document) for an application configured with three document indexes. The second index field is not required and is not provided:

```
“I04t”;”01”;”0000000001”;”0000000004”;”C12345”;;”12201997”
“I04t”;”01”;”0000000002”;”0000000004”;”B23456”;;”11171996”
“I04t”;”01”;”0000000003”;”0000000004”;”H11122”;;”01091998”
```

RBE
(Eastman Imaging for NT)

The RBE (Eastman Imaging for NT Remote Batch Entry, also known as Rapid Batch Entry) Batch Output format produces a sequential range of single-page TIFF files per batch. All TIFF files are contained in one subdirectory with the subdirectory name equal to the Capture Software batch name.

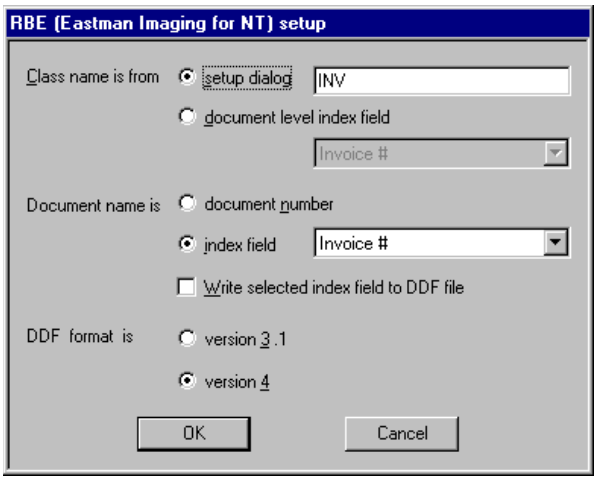
A DDF index file can contain indexes in RBE Version 3.1 or Version 4 format. The output structure displayed in the Output tab shows the batch structure after Capture Software batch processing.

One DDF and SUBMIT.STS file are created per batch. The DDF file name is the same as the Capture Software batch name (BATCH001 in the example batch structure). The images for a document are output as single-page TIFF files and are named starting at 00000001.TIF for the first document and are sequentially incremented across all documents of the batch.

The TIFF file names specified in the DDF file contain only the file name as they are stored in the same batch directory as the DDF file. All document index fields defined for the application, and their corresponding data values, will be written to the DDF file. The label of the index field, as specified in the Document-Index tab, will be the field name in the DDF file. If, for a particular document, a data value is not present for an index field, then the field entry will be omitted from the DDF file.

NOTE: RBE requires that any Date/Time fields be output in mm/dd/yy format.

The Class name (also known as Document Class) is mandatory and can be specified at either the application or document level. Select **Setup** in the Capture Software Output tab to further define the RBE batch output format. The following dialog box appears.



The **Class name** can either be specified in the setup dialog or based on a document index field. When specified in the setup dialog, the class name is indicated once per DDF file. When based on a document index, select the document index field on the drop-down list. The class name is indicated for each document in the DDF file based on the value of the index field for the document.

The **Document name**, as written to the DDF file, can be the Capture Software document number or be based on a document index field. When based on a document index, select the document index field on the drop-down list. The document name for each document, as written to the DDF file, is the value of the document index field for the document.

Since the index field is being used for the document name, by default it will not be written to the DDF file as index data (#DOCIDX or DOCFIELD entry). Check the **Write selected index field to DDF file** box if you want to include the document name index field as index data in the DDF file.

The DDF format can be either Version 3.1 (the old format) or Version 4 (the new and current format).

The following is an example Version 3.1 DDF file based on the following assumptions:

- Batch name is BATCH001 and contains three two-page documents.
- Document Class name is INV.
- Document name is the Capture Software document number and the first document name in the batch is 1.
- Field names are Customer number and Invoice #.

```
#REM ------------------------------------------------------------
#REM Batch created by KODAK DIGITAL SCIENCE Capture Software
#REM Date: '1998:06:15' Time: '10:59:41'
#REM C:\Batches\BATCH001\BATCH001.DDF
#REM ------------------------------------------------------------
#CLASS|INV

#REM Document 1
#DOCUMENT
#DESC|1
#DOCIDX|Customer number|37865
#DOCIDX|Invoice#|C0009341
#PPATH|00000001.tif
#PPATH|00000002.tif

#REM Document 2
#DOCUMENT
#DESC|2
#DOCIDX|Customer number|78673
#DOCIDX|Invoice#|C0002626
#PPATH|00000003.tif
#PPATH|00000004.tif

#REM Document 3
#DOCUMENT
#DESC|3
#DOCIDX|Customer number|#33351
#DOCIDX|Invoice#|C0008710
#PPATH|00000005.tif
#PPATH|00000006.tif
```

The following is an example Version 4 DDF file based on the following assumptions:

- Batch name is BATCH001 and contains three two-page documents.
- Document Class name is INV.
- Document name is based on the index value for the document index field Invoice #. Invoice # is not included as index data in the DDF file.
- Additional field name is Customer number.

```
VERSION|4
REM-------------------------------------------------------------
REM Batch created by KODAK DIGITAL SCIENCE Capture Software
REM Date: '1999:04:28' Time: '16:48:25'
REM C:\Batches\Batch001\Batch001.ddf
REM-------------------------------------------------------------

CLASS|INV



REM Document C0009341
DOCUMENT
DOCNAME|C0009341
DOCFIELD|Customer number|37865
PAGE|00000001.TIF
PAGE|00000002.TIF

REM Document C0002626
DOCUMENT
DOCNAME|C0002626
DOCFIELD|Customer number|78673
PAGE|00000003.TIF
PAGE|00000004.TIF

REM Document C0008710
DOCUMENT
DOCNAME|C0008710
DOCFIELD|Customer number|33351
PAGE|00000005.TIF
PAGE|00000006.TIF
```

Release

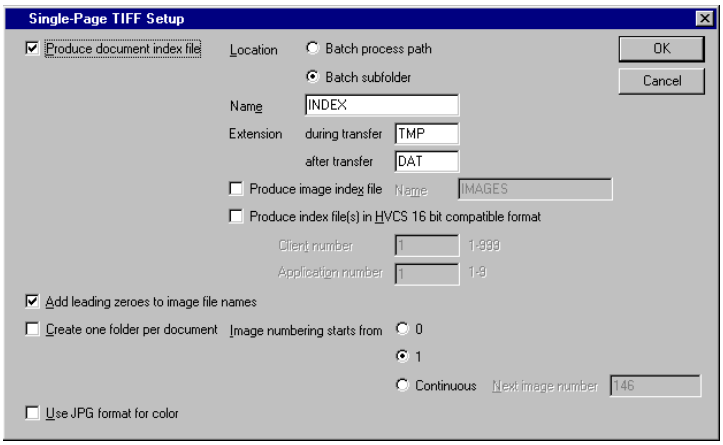
Release is one of the standard Batch Output formats. Release keeps the batch as is in its Native Scan structure and location and does not perform any conversion on the image files or the document index files. Release will finalize the batch index file and copy it to the specified path. Based on the appearance of the batch index file, the integrator can start or trigger additional batch processing.

Single-page TIFF

Single-page TIFF is one of the standard Batch Output formats. This format is intended for integrators and service bureaus that do their own integration of image and index data into target forms processing or document management systems.

During batch processing, Capture Software produces single-page TIFF files, one for each image in the batch. All TIFF files are contained, either directly or in document subfolders, in one batch subdirectory. The subdirectory name is the batch name and is located under the root path specified in the Output tab.

Select the **Setup** button to further define the Single-page TIFF Batch Output format. The following dialog box appears.



Produce document index file—by default, Capture Software produces a document index file. The document index file indicates the link between the document number, document index information, and the TIFF image files for the document. By default, it is named INDEX.DAT and is located in the same batch subdirectory as the images. The Name and Extension, however, are configurable. If the Location is defined as the Batch process path, then the document index file is created in the root output path and is named after the batch name. The document index file contains one entry for each document in the batch. Its format depends on the **Create one folder per document** setting (see the following page).

Uncheck **Produce document index file** to not produce a document index file when processing a batch.

When producing a document index file, an image index file can optionally be produced. By default, it is named IMAGES.DAT and is located in the same subdirectory as the images. The image index file contains one entry for each image in the batch. Since Capture Software does not yet support page- or image-level indexing, this option may only be useful for High Volume Capture Software (HVCS) users. When you use HVCS with a Scanner 5500, Scanner 7500, or Scanner 9500 installed with the Bar Code Accessory, the image index file will contain image address and bar code information for each image scanned.

When producing a document index file, and optionally an image index file, the format of the index files can optionally be produced in HVCS 16-bit (Version 2.x) format. This option can facilitate the upgrade from HVCS 16-bit to Capture Software 32-bit by keeping the batch output produced for the target imaging system unchanged.

Add leading zeroes to image file names—when enabled, Capture Software produces TIFF image files with eight-character names, padded with leading zeroes. Otherwise, image file names are sequentially numbered without leading zeroes. By default, adding leading zeroes is enabled. For example:

Add Leading Zeroes	**Image File Name**
Enabled	00000001.TIF 00000002.TIF 00000003.TIF . . .
Disabled	1.TIF 2.TIF 3.TIF . . .

Create one folder per document—when enabled, Capture Software produces a subdirectory of TIFF image files for each document in the batch. The name of the subdirectory will be the Capture Software document number. If document numbers are incremented across batches, then the document subdirectory names are also incremented across batches. If **Add leading zeroes to image file names** is enabled, then the document subdirectory names will also be padded with leading zeroes. The image file names in the document subdirectory always start at 00000001.TIF (or 1.TIF) and are sequentially incremented.

When disabled, Capture Software produces a sequential range of single-page TIFF files per batch in the batch subdirectory. The document index file indicates the starting and ending image numbers for each document. The starting image sequence number for the processed batch depends on the **Image numbering starts from** setting. This setting is available only when document folders are disabled. The starting image sequence can be between 0 or 1 or can be incremented across batches. The default is a starting image number of 1.

Use JPG format for color—when used with a Kodak color scanner, color images will be saved as JPEG files and bitonal images will be saved as TIFF G4 images. For example, if you scan Documents 1 and 2, each containing four images with color fronts and bitonal rear sides, this batch will be produced:

BATCHES\BATCH001\00000001\00000001.JPG
BATCHES\BATCH001\00000001\00000002.TIF
BATCHES\BATCH001\00000001\00000003.JPG
BATCHES\BATCH001\00000001\00000004.TIF
BATCHES\BATCH001\00000002\00000001.JPG
BATCHES\BATCH001\00000002\00000002.TIF
BATCHES\BATCH001\00000002\00000003.JPG
BATCHES\BATCH001\00000002\00000004.TIF

If this option is not checked, any color images will be saved as TIFF files with JPEG compression. The free Imaging for Windows viewer that is pre-installed in Windows can be used to view these files.

Document index file format

The document index file (INDEX.DAT by default) is a semicolon(;) delimited file that contains one record or line for each document in the batch. Each field is enclosed in double quotes (“). Its format depends on the **Create one folder per document** setting.

When **Create one folder per document** is enabled, INDEX.DAT has the following format:

[RECORD FORMAT TYPE]; [FORMAT VERSION]; [DOCUMENT NUMBER]; [INDEX FIELD 1]; [INDEX FIELD 2];….

Record Format Type	Fixed length of four characters. Is always “I05u”.
Format Version	Fixed length of two characters. Is always “01”.
Document Number	Capture Software document number. Fixed length of ten characters, zero-filled. Indicates name of document folder.
Index Fields	Index values for the document index fields in the order they are defined in Index Setup. If an index field does not have a value, then a null character will be stored in its place.

Following is an example of an INDEX.DAT file for a batch containing three documents for an application configured with three document indexes. The second index field is not required and is not provided.

“I05u”;”01”;”0000000001”;”C12345”;;”12201997”
“I05u”;”01”;”0000000002”;”B23456”;;”11171996”
“I05u”;”01”;”0000000003”;”H11122”;;”01091998”

When **Create one folder per document** is disabled, INDEX.DAT has the following format:

[RECORD FORMAT TYPE]; [FORMAT VERSION]; [DOCUMENT NUMBER]; [STARTING IMAGE NUMBER]; [ENDING IMAGE NUMBER]; [INDEX FIELD 1]; [INDEX FIELD 2];….

Record Format Type	Fixed length of four characters. Is always “I02r”.
Format Version	Fixed length of two characters. Initially, is always “01”.
Document Number	Capture Software document number. Fixed length of ten characters, zero-filled.
Starting Image Number	TIFF file image number of the first image of the document. Fixed length of ten characters, zero-filled.
Ending Image Number	TIFF file image number of the last image of the document. Fixed length of ten characters, zero-filled.
Index Fields	Index values for the document index fields in the order they are defined in Index Setup If an index field does not have a value, then a null character will be stored in its place.

The following is an example of an INDEX.DAT file for a batch containing three documents (with four images per document) for an application configured with three document indexes. The second index field is not required and is not provided.

“I02r”;”01”;”0000000001”;” 0000000001”;” 0000000004”;”C12345”;;”12201997”
“I02r”;”01”;”0000000002”;” 0000000005”;” 0000000008”;”B23456”;;”11171996”
“I02r”;”01”;”0000000003”;” 0000000009”;” 0000000012”;”H11122”;;”01091998”

Other Batch Output formats

Capture Software will continue to include additional Batch Output formats, compatible with other digital document management systems, as they become available. On the Capture Software CD, these other Batch Output formats are available:

AXXIS (Automated Office Systems)	Keyfile
Captiva Formware	Kofax Ascent
DocuWare (ALOS)	LaserFiche
Doc-X Import (Minolta MI^{3}MS 3000)	MacroImage Preloaded Indexes (MacroSoft)
eMedia Filter (Optika)	MetaFile
Enhanced Multi-Page Document (file naming based on index value[s]; TIFF or PDF output)	Mobius
Enhanced Single Image (image [TIFF/JPEG] file naming based on index data)	Multiple Batch Output Formats (output to more than one format with one processing step)
File Magic Plus/Fortis	Multi-page TIFF 300 DPI Conversion (downscale 300 dpi bitonal images to either 240 or 200 dpi)
FilePower (Optika)	OnBase (Hyland Software)
High Performance Image Import (FileNet)	OTG—Application Xtender
IMR Alchemy	PC DOCS
IRIS Docshare	PDF (Multi-page image PDF)
IRIS Formiris PRO	Single-page TIFF 300 DPI Conversion (downscale to 300 dpi bitonal images to either 240 or 200 dpi)
InfoImage (Unisys)	

Please contact your local Kodak office or authorized reseller of Kodak Imaging Products for an updated list of Batch Output formats or visit our web site at www.kodak.com/go/capturesoftware.

5 Patch Setup

About patch codes

There are three types of patch codes you can set up in Capture Software:

- Patch 2 codes are traditionally used to separate pages into documents. A page containing a Patch 2 code is usually kept.
- Patch 3 codes are traditionally used to separate documents into batches. A page containing a Patch 3 code is not kept.
- Patch T codes or programmable patch codes can be used for either document, batch separation or the creation of an attachment. A Patch T code is never kept.

With Capture Software, you can define the separation method for each of the patch codes. This is useful for existing applications where Patch 2 codes were used as document separator pages instead of Patch T codes. You can also define a patch code to create an attachment. For new applications and for compatibility reasons, it is recommended that you use patch codes the way they were designed to be used.

NOTES: Patch code applications cannot be used with Low Volume Capture Software *Lite*.

For patch code reading when color scanning, refer to Chapter 7, *Bar Code and Patch Code Reading with Color Scanners*.

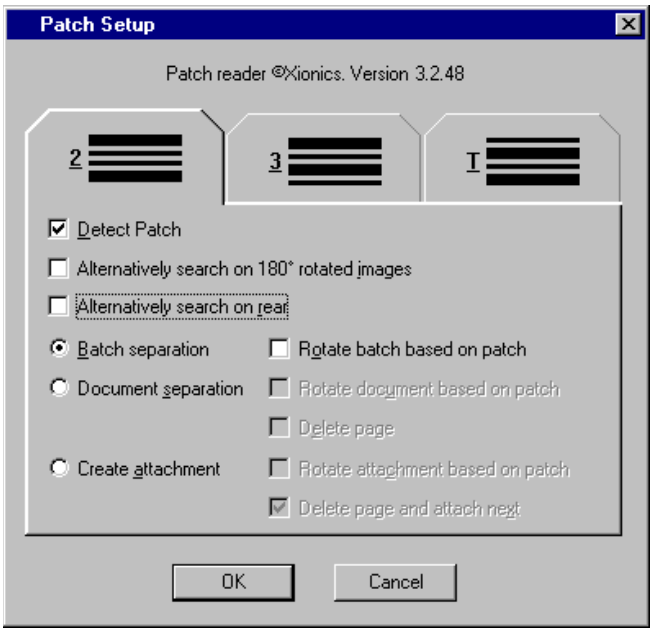
When patch code reading is enabled in an i800 Series Scanner, software patch code reading in Capture Software is not allowed. Conversely, when software patch code reading is enabled in Capture Software, hardware patch code reading in the i800 Series Scanner may not be defined.

Using the Patch Setup dialog box

To access the Patch Setup dialog box, follow the steps below.

1. From the Capture Software main window, select the application for which you want to set up patch information.
2. Access the Application Setup dialog box.
3. Select the Setup Patch icon located in the upper right corner of the window.

   The Patch Setup dialog box appears.



4. Select the tab(s) with the patch type(s) you want to define: Patch 2, Patch 3, or Patch T.
5. Enable all desired options on the tab. (See the following explanations of each option on the Patch tabs.)
6. Click **OK**.

Patch Setup dialog box

Detecting patch code options

Following is an explanation of each option available on the Patch Setup dialog box The options described here are available on the 2 Patch tab, the 3 Patch tab, and the T Patch tab.

Detect Patch—you can enable or disable the **Detect Patch** check box. If all **Detect Patch** check boxes are disabled, the Patch Reader is disabled. If you have checked **Detect Patch** on any of the patch tabs, Capture Software will check each page for the type of patch code you are looking for.

IMPORTANT: Patch codes will always be searched in the first four inches (10 cm) of the top of the image after rotation, deskew and cropping (if any). If a patch is vertical, the image should be rotated with the auto-rotate option defined in the Page Setup.

Each patch code type can be defined to

- start a new batch
- start a new document
- create an attachment

Alternatively search on 180° rotated images—when enabled and patch code reading is unsuccessful, Capture Software also looks for a patch code after rotating the image 180°. This slows down patch code reading but prevents a patch code read failure because a page was scanned upside down.

Alternatively search on rear—when enabled and patch code reading is unsuccessful, Capture Software also searches for the patch code on the rear side of the document. When Capture Software detects a patch code on the front, it will not try to detect a patch code on the rear.

Batch separation options

Batch separation—to create a new batch with a patch code, enable the **Batch separation** option for the patch code type that you will use for that application.

By default:

- Patch 3 creates a new batch.
- Patch 2 creates a new document and keeps the image of the page containing the patch code.
- Patch T creates a new document and deletes the image of the page containing the patch code.

IMPORTANT: Normally the page containing a patch code for batch separation should not have any content. Therefore, the page containing the patch code that creates the new batch is not kept and the next page scanned becomes the first page of the first document in the batch.

Rotate batch based on patch—rotates the page containing the patch code so the patch code is located horizontally on top of the page. All the pages in the batch will be rotated in the same way. This only works when the **Alternatively search on 180° rotated images** option is enabled. Fronts and rears are rotated according to the selected duplex mode (classic or calendar).

NOTE: This function is not yet supported in Capture Software.

Document separation options

Document separation—to create a new document with a patch code, enable the **Document separation** option for the patch type you are going to use.

Rotate document based on patch—rotates the image containing the patch code so the patch code is located horizontally on top of the page. All the images in the document will be rotated in the same way. This only works when the **Alternatively search on 180° rotated images** option is enabled. Fronts and rears are rotated according to the selected duplex mode (classic or calendar).

Delete page—deletes the page containing the patch code that started the new document. This is important when inserts are used for document separation purposes but do not contain any other information.

NOTE: **Rotate document based on patch** does not work when the patch code separator page is deleted.

Create attachment options

Create attachment—to create an attachment with a patch code, enable the **Create attachment** option for the patch code type you want to use in your application.

NOTE: Use this option in conjunction with the option **Create a document every X pages** in the Application Setup> Images Tab – Document Tab.

Rotate page based on patch code—rotates the attachment (both front and rear) so the patch code is horizontally on top of the page. This only works when the **Alternatively search on 180° rotated images** option is enabled. Fronts and rears are rotated according to the selected duplex mode (classic or calendar).

Delete page and attach next—deletes the page containing the patch code and attaches the next page to the document. This is important when a patch card is inserted just before the attachment. This patch card only indicates the next page is an attachment. Any rotation applies to the next page.

IMPORTANT: The Create attachment option is only valid for one page (both front and rear). Therefore, you have to apply a patch code to every attachment or insert a patch card before every attachment.

6 Bar Code Setup

Use Bar Code Setup to set up bar code reader parameters for one or more bar codes. Bar code setup allows you to define the following:

- the name of the bar code
- the data mask or syntax
- the physical location where you find the bar code (zone or anywhere on the image)
- the bar code type (width, height, quality, and confidence level)
- the level where you can find the bar code (batch, document or page level)

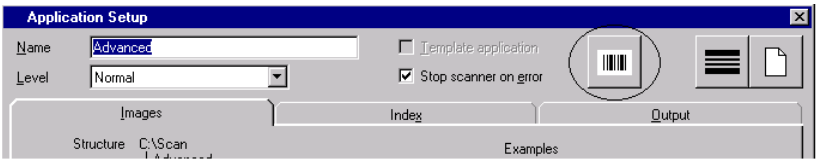
NOTES: Bar code applications cannot be used with Low Volume Capture Software *Lite*.

For bar code reading when color scanning, refer to Chapter 7, *Bar Code and Patch Code Reading with Color Scanners*.

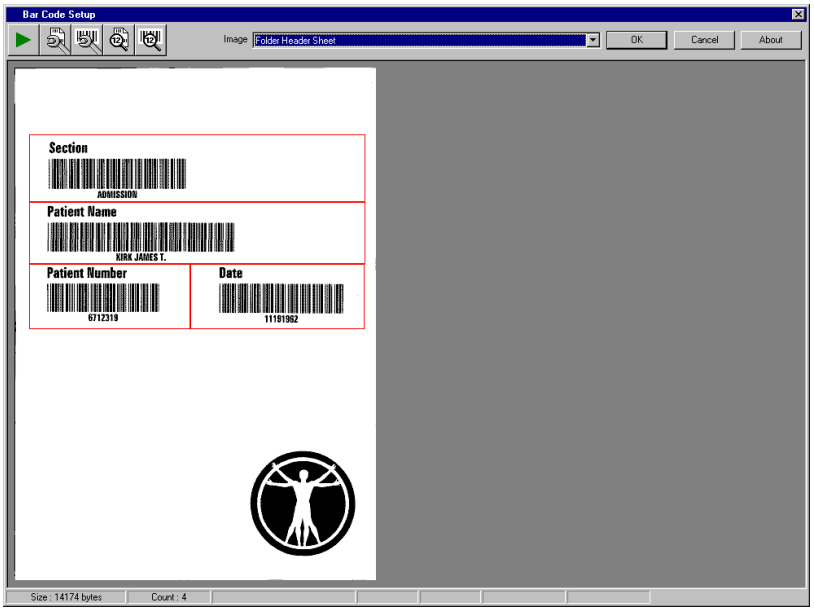
Bar Code Setup window

To access the Bar Code Setup window, follow the steps below.

1. From the Capture Software main window, select the application for which you want to set bar code information. Access the Application Setup dialog box.
2. Click the **Bar Code Setup** button.



The Bar Code Setup window appears.



The Bar Code Setup window allows you to scan an image and define general bar code properties for all defined bar codes and bar code zone-specific properties. You must have an image in the Image drop-down list before bar code zones can be defined.

The example Bar Code Setup window shows the Folder Header Sheet image with four bar code zones defined.

Image drop-down list—displays all images that have been scanned into or copied to Bar Code Setup for the application. For typical bar code applications, a single image is all that is required. Multiple images are needed for applications that have batch and document header sheets each containing bar code information. All bar code zones defined are displayed on the current image, even those zones that were defined using another image.

OK—click **OK** to accept any changes made on the Bar Code Setup window. You return to the Application Setup window.

NOTE: When you click **OK** on the Bar Code Setup window, your changes are temporarily saved. You must click **OK** on the Application Setup window to permanently save Bar Code Setup changes.

Cancel—closes the Bar Code Setup window, discards any changes made, and returns you to the Application Setup window.

About—displays the version number of the Capture Software bar code reader.

Bar Code Setup Tool bar

Following is a description of the tools available on the Bar Code Setup Tool bar and the functions they perform.

Button	Description
	The **Scan** button allows you to scan the front side of a single image. When you select the Scan button, the Scan Image dialog box appears.
	The **General Bar Code Properties** button allows you define application-level properties that will apply to all bar code zones defined. When you select this button, the General Bar Code Properties dialog box appears.
	The **Bar Code Zone Properties** button allows you to define the properties for the currently selected bar code zone. When you select this button, the Bar Code Zone Properties dialog box appears.
	The **Test All Bar Code Zones** button will attempt to read all bar code zones defined for a bar code value. If any bar codes are found, the Bar Code Value window appears.
	The **Test Selected Bar Code Zone** button will attempt to read the selected bar code zone for a value. If the bar code is read successfully, the Bar Code Value window appears. If a bar code value is not found, the Bar Code Value window will only show the zone label and coordinates. In this case, the bar code zone properties must be adjusted.

Image context-sensitive menu

When you right-click on an image in Bar Code Setup, a context-sensitive menu appears. If no bar code zones are selected, the following menu appears.

When a bar code zone is selected, the menu includes more options.

Following are descriptions of each menu option:

Cut—removes the selected bar code zone definition for subsequent pasting onto another image using bar codes. If a bar code zone needs to be moved to another location on the same image, you can left-click and drag the zone to its new location without cutting and pasting the zone.

Copy—copies the selected bar code zone definition for subsequent pasting onto another image using bar codes. Copy is also useful when several bar code zones of the exact same properties (except for location) are required. After defining the first zone, you can use the **Copy** and **Paste** function to duplicate zone definitions. Once defined, the new zones can be moved by left-clicking on the zone and dragging it to its proper location.

Paste—pastes a cut or copied bar code zone definition to the current image. When pasting, the zone coordinates from the saved zone are used in determining the location of the zone. If the pasted zone is in the wrong location, you can left-click on the zone and move it to its proper location. **Paste** is useful in conjunction with **Copy** when copying bar code zone properties to another image containing bar codes in the application.

Rename Image—prompts you to rename the currently displayed image. When naming or renaming an image, the image name must be unique to the Capture Software application. A file extension is not required.

Delete Image—removes the current image from the Bar Code Setup image list for the application. You will be prompted for confirmation before the deletion takes place. If other images remain in the image list, then the image preceding the deleted image will be displayed in its place. Bar code zone definitions are not affected.

*IMPORTANT: If the image to be deleted is the last image in the image list, the following message will appear: This is the last image. Deleting this image also deletes all bar code definitions. Do you want to delete this image? If you choose **Yes**, all bar code zone definitions for the application will also be deleted. Remember, an image must exist in the image list in order to define bar code zones. As a result, if there are no more images in the image list, then all bar code zone definitions will be deleted.*

Delete Selected Bar Code Zone—deletes the selected bar code zone definition. No warning or confirmation message will appear.

Delete All Bar Code Zones—deletes all bar code zone definitions for the application. A confirmation box appears before the deletion takes place.

Test Selected Bar Code Zone—attempts to read the selected bar code zone for a bar code value. If a value is found, the Bar Code Value window will appear.

Test All Bar Code Zones—attempts to read all bar code zones defined for a bar code value. If any bar codes are found, the Bar Code Value window will appear.

Bar Code Zone Properties—allows you to define the properties for the currently selected bar code zone. When you select this button, the Bar Code Zone Properties dialog box appears.

General Bar Code Properties—allows you define application-level properties that will apply to all bar code zones defined. When you select this button, the General Bar Code Properties dialog box appears.

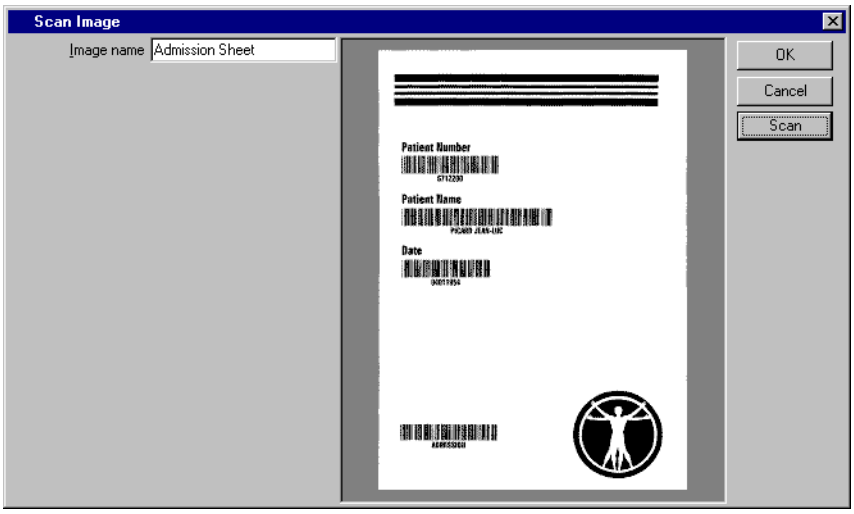
Scanning an image

An image must be in the Image drop-down list before bar code zones can be defined. There are two ways to capture images for bar code setup. Procedures for both ways follow.

To scan an image from the Bar Code Setup window:

1. Select the green **Scan** button.

   The Scan Image window appears.



2. Position the original in the feeder and click on the **Scan** button.

   The image appears in the Scan Image window.

   Scan the image as straight as possible. The scanner uses the parameters of the current Capture Software Page template. Any auto-rotation, auto-cropping and deskew settings from the current Capture Software Page Template will also be applied to the scanned image before it appears.

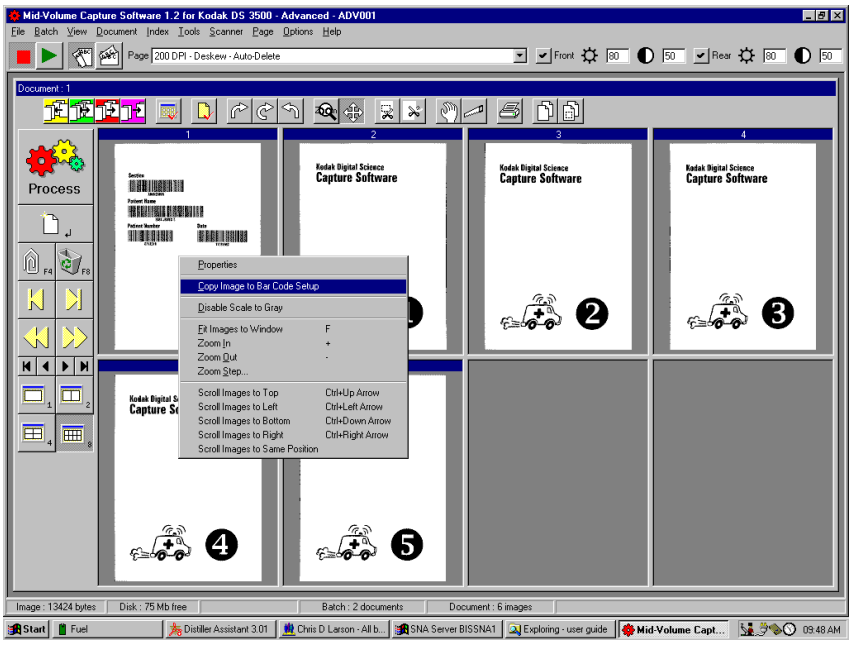
3. If the image you scanned is acceptable, enter a name in the Image Name field.

4. Click **OK**.

You can also scan an image from the Capture Software main window.

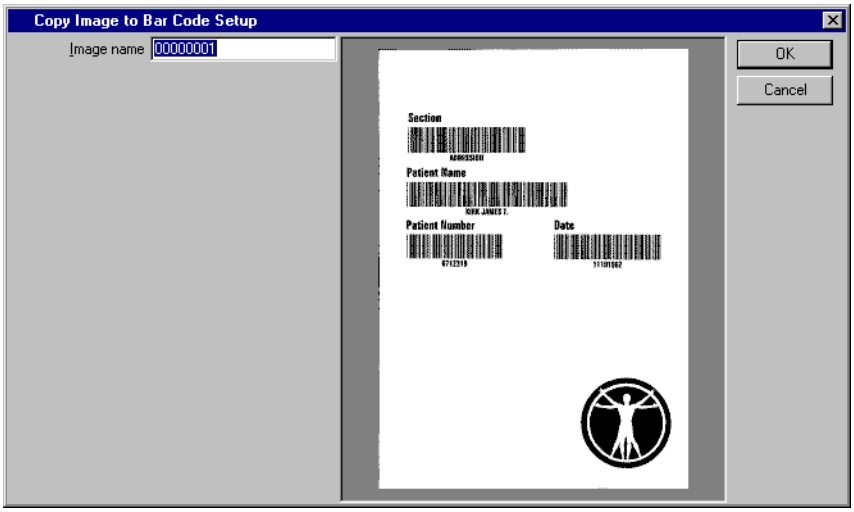
1. Select the image containing bar codes and click the right mouse button.

   The Image context-sensitive menu appears.


Mid-Volume Capture Software 1.2 for Kodak DS 3500 - Advanced - ADV001
File Batch View Document Index Tools Scanner Page Options Help
Process
Properties
Copy Image to Bar Code Setup
Disable Scale to Gray
Fit Images to Window
Zoom In
Zoom Out
Zoom Step...
Scroll Images to Top
Scroll Images to Left
Scroll Images to Bottom
Scroll Images to Right
Scroll Images to Same Position
Kodak Digital Science
Capture Software

2. Select the **Copy Image to Bar Code Setup** option.

   The Copy Image to Bar Code Setup window appears.



3. Enter the new image name.
4. Click **OK**.

Drawing and selecting bar code zones

Bar code zones are drawn on the Bar Code Setup window. Once you define a bar code zone, you can set up the bar code properties. See the following section for defining bar code zone properties.

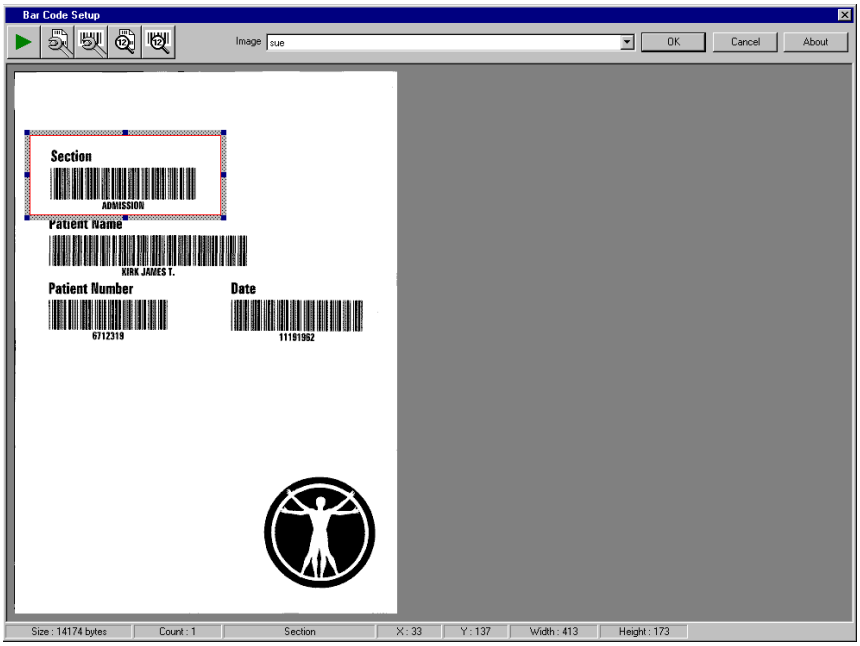
To draw a bar code zone:

1. Place the mouse cursor at the top left corner of the area of the displayed image where you want to define the bar code zone.

   It is recommended that you draw the zone about a ¼-inch larger on all sides than the actual bar code. This ¼-inch "quiet space" around the bar code is often necessary for successful bar code reading. Bar code zones can overlap.

NOTE: Bar code zones are application-specific; not image-specific. Therefore, displaying a new image will continue to display the zones as defined.

2. Click the left mouse button and drag the cursor until a rectangle is drawn around the area of the bar code.



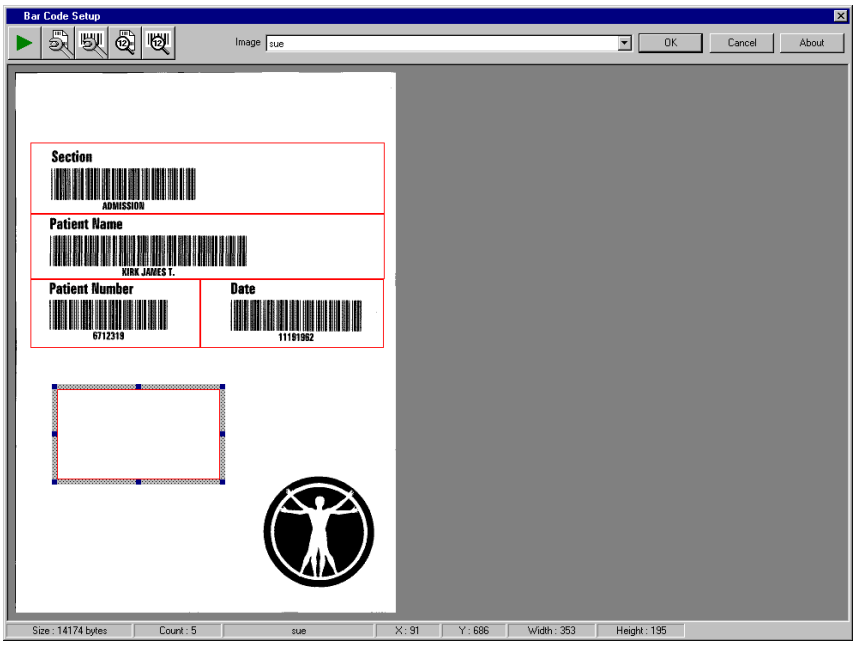
As the rectangle is drawn, the x and y coordinates and width and height are displayed (in 1/100 inch) in the status bar at the bottom of the screen.

You can delete or change the properties of a bar code zone. To do this, follow the steps below.

To delete a bar code zone:

1. Select the bar code zone you want to delete by clicking the left mouse button on the bar code zone you want to delete.

   The bar code zone is highlighted.



2. Press the **Delete** key or choose **Cut** or **Delete Selected Bar Code Zone** from the Image context-sensitive menu.

   The bar code zone is deleted.

To edit or change a bar code zone:

1. Select the bar code zone you want to edit.
2. Press the **Bar Code Zone Properties** button or choose **Bar Code Zone Properties** from the Image context-sensitive menu.

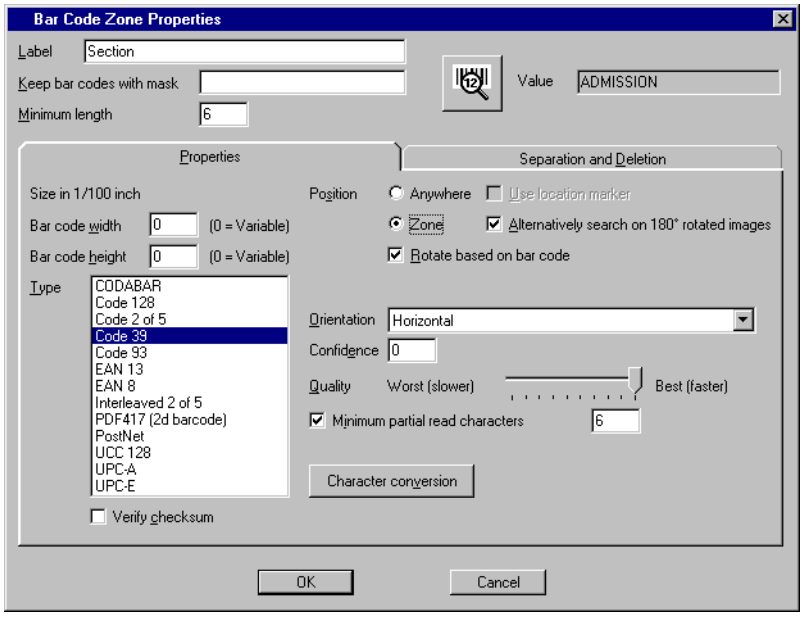
Bar Code Setup status bar

The Bar Code Setup status bar contains the following information:

- Size of currently displayed image
- Count of bar code zones defined
- Label of currently selected bar code zone
- x and y starting position (in 1/100-inch) of currently selected bar code zone
- Width and height (in 1/00-inch) of currently selected bar code zone

Setting bar code zone properties

Bar code zones provide Capture Software with important information, such as dimensions of the bar code and the bar code type. After you draw a bar code zone, Capture Software attempts to read the bar code in the zone and automatically displays the Bar Code Zone Properties window with whatever values Capture Software could determine about the bar code.



When the Bar Code Zone Properties window is displayed, follow the procedures below to further define bar code zone properties:

1. Enter a name for the bar code zone in the **Label** field.

   This name identifies the bar code and appears in Index setup as BC_[Label] in the list of default values. To assign a bar code value to an index field, refer to “Index setup tab — Default values” in Chapter 4.

IMPORTANT: The bar code Label does not define or identify an Capture Software Index field. In Application Setup, all index fields must be defined in the Index tab. To use a bar code for an index field, you must assign the appropriate BC_[Label] as a default value for the index field.

2. If applicable, enter a mask value in the **Keep bar codes with mask** field.

   The Keep bar codes with mask option should be used when one or more *Anywhere* bar code zones are defined. The bar code value is only retained for the defined zone when it complies with the mask specified in the Keep bar codes with mask field. This ensures that the bar code values read on a page get assigned to the correct bar code zone.

This option is also useful when more than one *Zone* bar code zones are in the same physical location on a page but have different values and meanings (e.g., a zone defined for a batch header sheet versus a zone defined for a document header sheet). To comply with a specified mask, each character of the bar code value must match the mask syntax for that character's position in the mask.

For example, a mask of **A(8)** will retain a bar code value of up to, but not exceeding, eight alphabetic characters:

Bar Code Value	**Retained?**
SURGERY	Yes
ADMISSION	No

See the "Mask syntax" section in Chapter 4 for mask syntax values.

3. Enter the minimum length of the bar code.

   By default, the minimum length is set to the length of the tested bar code value. If a value is not found or the value is equal to or greater than six characters, the default will be set to "6." It is recommended that the Minimum length parameter be set at 6 characters or fewer to allow Capture Software to retain bar code values in cases of a partial read.

   NOTE: If Partial Reading is not required or enabled, then the mask and minimum length settings can be used in combination to restrict even further the bar code values that are retained. For example:

   Mask **9(10)**
   Minimum bytes **6**
   retains bar code values between six and ten digits, while

   Mask **9(10)**
   Minimum length **10**
   retains bar code values only if they are exactly ten digits.

Using the Properties tab

The Bar Code Zone Properties window provides a Properties tab and a Separation and Deletion tab. The Properties tab allows you to specify size and quality characteristics of the bar code as well as the position of the bar code.

To define those characteristics fill out the Properties tab as described below:

1. If the bar code has a fixed width or height, enter these values in the **Bar code width** and **Bar code height** fields. Enter the width and height in 1/100 of an inch.

   Making an entry in one or both of these fields increases the performance of bar code reading. If one of the dimensions is variable, enter **0**. The default bar code width and height is "0."

   NOTE: Bar code dimensions can vary depending on the amount of skew. Therefore, it is recommended that you enter these values only when you are sure of the dimensions of the bar code.

2. Set one of the following Position options:

- **Anywhere**—select this option if the bar code can appear anywhere on the image. This often occurs when bar code labels are used on documents. When drawing a zone around the bar code, draw it precisely around one bar code label somewhere on the page, and select the **Anywhere** option.
  - **Use** location **marker**—this option can only be used when the Anywhere option is enabled. It is not yet supported in Capture Software.
- **Zone**—if a bar code is always in the same position, enable the **Zone** option. This increases bar code reading performance. The Zone option is the default.
  - **Alternatively search on 180° rotated images**—this option can only be used when the Zone option is enabled. When bar code reading is unsuccessful, Capture Software will also look for the zone after rotating an image 180 degrees. This slows down bar code reading, but prevents a bar code read failure because a page was scanned upside down. The image is not permanently rotated unless the **Rotate based on bar code** option is selected.
  - **Rotate based on bar code**—this option rotates either the document or attachment in the same orientation as the orientation of the bar code depending on the level (document or attachment) selected in the Separation and Deletion tab. For document rotation, all of the pages of the document will be rotated in the same manner as the lead page containing the bar code zone. If required, only one bar code zone should have the **Rotate based on bar code** option enabled.

NOTE: Batch rotation is not supported in Capture Software.

3. Select one or more bar code types from the **Type** list box.

   Although it is unusual that more than one bar code type would be found within a zone, or even an application, it is possible to select different bar code types. Following is a list of bar code types and any selection restrictions if they apply.

   - CODABAR
   - Code 128
   - Code 2 of 5 (Mutually exclusive with Interleaved 2 of 5. Do not select them simultaneously.)
   - Code 39

   NOTE: The maximum number of characters that can be read with the Code 39 bar code is 38.

   - Code 93
   - EAN 13
   - EAN 8
   - Interleaved 2 of 5 (Mutually exclusive with Code 2 of 5. Do not select them simultaneously.)

- PDF417—is a high-density, two-dimensional bar code type that can contain up to 1250 bytes of information in a few square inches. With this kind of density, all of the index data for a document can be contained in a single bar code. Refer to the section entitled “Substring syntax” in Chapter 4 for suggestions on creating and indexing PDF417 bar codes in Capture Software.

NOTE: It is recommended that you scan at 200 dpi when you are using PDF417 bar codes. Scanning at 300 dpi may result in bar code read failures.

- PostNet (Postal)—cannot be selected in combination with any other bar code type.
- UCC128
- UPC-A
- UPC-E

NOTES: The more bar code types you select, the slower performance will be. After you confirm the bar code zone setup by clicking **OK**, an audit will be performed for any bar code type conflicts.

When you scan bar code documents with a Scanner 2500, you may need to adjust (lower) the default threshold setting of 130 to read bar codes that are not of optimum quality.

When the bar code zone is first created, Capture Software searches the zone for all bar code types. When successful, Capture Software sets the bar code type to the one found. Otherwise, a bar code type is not selected.

4. Check **Verify Checksum** if the bar code contains a checksum character.

   Checksum characters help ensure the accuracy of bar code reading. Not all bar code types support checksum verification. Bar code types that optionally support checksum verification:

   - Code 3 of 9
   - CODABAR
   - Interleaved 2 of 5

   Some bar code types like PDF417, UPC and EAN have a built-in checksum routine that cannot be disabled.

   If you disable **Verify Checksum** for bar codes containing a checksum, the checksum value (usually the last character of the bar code) will appear in the bar code value; otherwise, the check digit will remain hidden.

   If checksum verification fails during scanning, a bar code value is not generated, causing Capture Software index field audits to fail.

5. Choose one of the following **Orientation** options:

   - Horizontal
   - Vertical
   - Horizontal & Vertical
   - Horizontal with Significant Skew
   - Vertical with Significant Skew
   - Horizontal & Vertical with Significant Skew

   If your bar codes are all in the same orientation (i.e., all horizontal or all vertical), it is recommended that you indicate the specific orientation; this will increase bar code read performance.

   NOTES: Significant Skew means more than 15 degrees of skew; enabling this option slows down the reading process. The following shows a 15° skewed bar code that still reads successfully without enabling the *with Significant Skew* option.

   If enabled in Page Setup, Capture Software will deskew the image before reading the bar codes. Therefore, **Significant Skew** should never be used with pre-printed bar codes, but could be used for bar code labels.

   When the bar code zone is first created, Capture Software automatically sets the orientation to the orientation of the bar code, if found. Otherwise, **Horizontal** is selected by default.

6. Enter a **Confidence** level when you want to restrict what Capture Software considers to be a successful bar code read.

   When reading a bar code, the Capture Software bar code reader indicates how confident it was in correctly reading the bar code. If this confidence percentage (between 0 to 100%) falls below the specified confidence level, then a bar code value is not returned.

7. Change the quality level if desired.

   Settings range from **Worst (0)** to **Best (9)**.

   The highest quality bar codes are printed by a laser printer or pre-printed with an offset printer. Lower quality bar codes are printed with inkjet or dot-matrix technology. Depending on the quality of bar codes being scanned, set the Quality level accordingly. The higher the quality setting, the faster bar code read performance is. The Best setting is always selected by default.

8. Enable **Minimum partial read characters** when you want Capture Software to generate a bar code value, even if a bar code is incomplete.

   If enabled, enter the minimum number of characters that will be allowed for a partial read. This is useful for bar codes that are only used for document or batch separation where the absolute value is less critical.

   NOTES: For indexing purposes, it is recommended that you define field masks and minimum lengths in such a way that it is possible to detect partially read bar codes, thereby causing index field audit errors. Capture Software will not produce any bar code value if the bar code is incomplete and the Minimum partial read characters field is disabled.

   Minimum Partial Read should not be used when **Verify Checksum** is enabled, as this may result in a bar code value being generated when checksum verification fails.

9. Select **Character Conversion** if the character set you are using is not supported by the standard bar code character set.

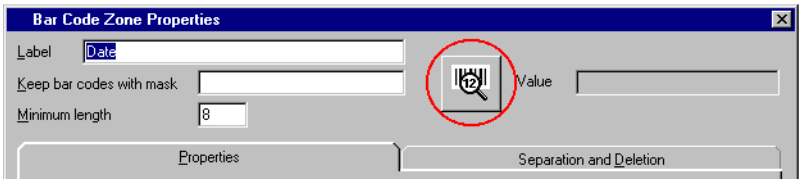
   When you select this option, the Character Conversion Setup window appears so you can enter substitute characters for the characters of your choice. This function is not yet supported in Capture Software.

Testing bar codes

When a bar code zone is first drawn, Capture Software will attempt to read or test the bar code in the defined zone. If successful, the bar code value will be displayed in the **Value** box in the upper right of the Bar Code Zone Properties window. If unsuccessful, the **Value** box will be empty.

When editing a bar code zone, click the **Test** button to test the bar code. If successful, the bar code value will be displayed.

If unsuccessful, the message *No bar code found* appears. Make any changes to the bar code properties, then click the **Test** button again to re-test the bar code.

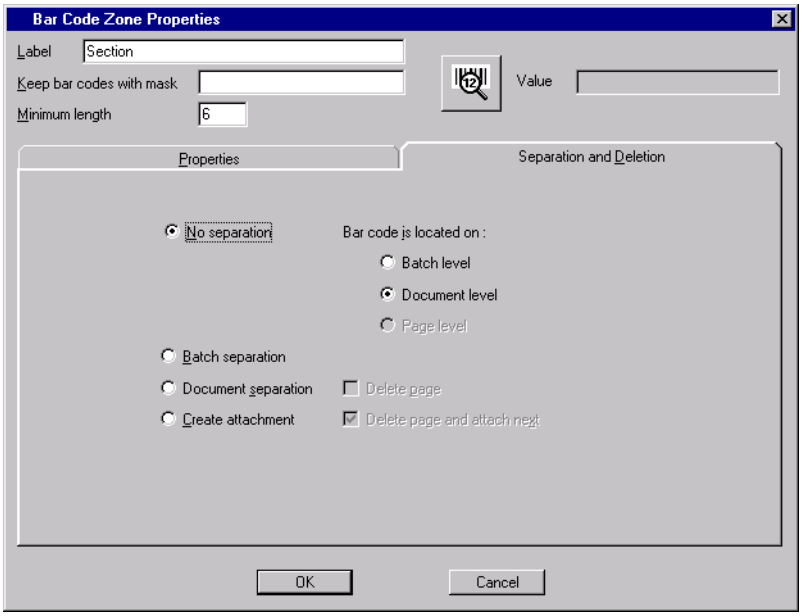


Using the Separation and Deletion tab

When a bar code is detected, you can use the Separation and Deletion tab to enable the following options:

- Separate batches
- Separate documents
- Create attachments

Choose the Separation and Deletion tab to set any of these options.



- **No separation**—if you this option, you must indicate what level the bar code is located on. Bar codes can be found on one of the following levels:
  - **Batch Level**—bar codes that are located on the Batch level or that separate batches are available for Batch and Document indexing.

    NOTE: Batch level bar codes are only read when they are present on a Batch Header page. A Batch Header page exists whenever batch separation is defined using patch codes or bar codes (at least one bar code zone in the application is configured for Batch separation). See the following section, “Separating batches.”
  - **Document Level**—bar codes that are located on the Document level or that separate documents are available for Document indexing. They are not available for Batch indexing.
  - **Page Level**—page level bar codes to be used for Page level indexing are not yet supported in Capture Software.

Separating batches

You can separate batches in the following ways:

- with a bar code
- with a patch code (see the section entitled “Patch Setup dialog box” in Chapter 5 for more information)
- with a blank page (see the section entitled “Blank Page Setup dialog box” in Chapter 8 for more information)
- automatically after x documents
- by selecting **Batch>New** from the Capture Software menu bar

To separate a batch with a bar code:

1. Define the zone where you expect to find the bar code.
2. Check the **Batch Separation** option.
3. Fill in the **Keep bar codes with mask** and /or **Minimum length** field in the Properties tab if you wish to restrict batch separation to a specific bar code value or mask.

IMPORTANT: Normally the page containing the bar code that separates the batch does not have any content. Therefore, the page containing the bar code which creates the new batch is always deleted. The next page scanned becomes the first page of the first document in the batch. Any bar codes on the Batch Header page can still be used in the batch or document index file.

When a batch is manually created (usually the first batch of the day), any batch level bar codes will not be read from the batch separator page if it is the first page scanned. This is because the batch was not automatically created from the batch separator page. As a result, you must do one of the following to successfully batch index the first scan batch of the day:

*Manually enter the batch index fields using the **Edit Batch Fields** option on the Index menu.*

Create a “dummy” first batch of the day and precede the batch with a “dummy” document. As a result, when the batch separator page is scanned, the batch will automatically be created and indexed.

Separating documents

You can separate documents using the following methods:

- with a bar code
- with a patch code (see the section entitled “Patch Setup dialog box” in Chapter 5 for more information)
- with a blank page (see the section entitled “Blank Page Setup dialog box” in Chapter 8 for more information)
- automatically after x pages
- by clicking on the **New Document** icon on the Button bar
- by pressing **Enter** during scanning
- by cutting off a part of a document using the **Saw** tool to create a new document

To separate documents with a bar code:

1. Define the zone where you expect to find the bar code.
2. Check the **Document Separation** option.
3. Fill in the **Keep bar codes with mask** and /or **Minimum length** field in the Properties tab if you wish to restrict document separation to a specific bar code value or mask.
4. Check the **Delete page** option to delete the page containing the bar code that started the new document.

   This is important when inserts are used for the purpose of document separation and do not contain any significant information. The bar code, however, is still available for Document level indexing.
5. Select **Rotate based on bar code** in the Properties tab if you want to rotate all the pages in the document in the same orientation as the orientation of the bar code on the Document Header.

NOTE: Rotating the document based on bar code does not work when the bar code separator page is deleted.

Example

Mask = “ER”9(8)”-“999 Minimum length = 14: Only bar code values with a length of 14 characters, starting with the string “ER” followed by eight numeric characters, a hyphen and three numeric characters will start a new document. For instance, the patient number bar code on the cover sheet of a folder starts a new document. The patient number can, in that case, also be used as a document index.

NOTE: If a bar code in the same zone creates a batch with a certain value and a document with another value, two zones must be drawn on top of each other.

Creating attachments

Creating attachments is useful in applications where typically every page is a document (e.g., transaction documents, such as; checks, airline tickets, invoices, etc.), but there is occasionally a page (such as a corresponding memo) that needs to be appended to a document.

You can automatically create attachments by using one of the following methods:

- with a bar code
- with a patch code (see the section entitled “Patch Setup dialog box” in Chapter 5 for more information)
- with a blank page (see the section entitled “Blank Page Setup dialog box” in Chapter 8 for more information)

You can append an attachment manually to a document by clicking the **Attach** button on the Button bar or by selecting **Attach** from the Document menu.

To create an attachment with a bar code:

1. Define the zone where you expect to find the bar code.
2. Check the **Create Attachment** option.
3. Fill in the **Keep bar codes with mask** and/or **Minimum length** field in the Properties tab if you wish to restrict attachments to a specific bar code value or mask.
4. Check the **Delete page and attach next** option to delete the page (both front and rear) containing the bar code and to use the next page as the attachment.

   This is useful when inserts are applied indicating whether the next page is an attachment. Any rotation will apply to the next page.
5. Select **Rotate based on bar code** in the Properties tab if you want to rotate the attachment (both front and rear) in the same orientation as the orientation of the bar code on the page.

*IMPORTANT: The **Create Attachment** option is only valid for one attachment page. If multiple attachments are required, then an attachment bar code must be applied to each attachment.*

The bar code on the attachment page is not available for indexing.

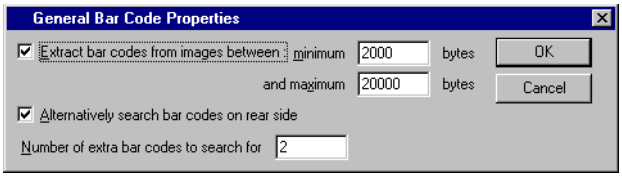
General Bar Code Properties

The General Bar Code Properties dialog box provides application-level bar code properties that apply to all bar code zones defined for the application.

To set General bar code properties, follow the steps below.

1. From the Bar Code Setup window, choose the **General Bar Code Properties** button from the tool bar.

   The General Bar Code Properties dialog box appears.



2. Enter values in the **Extract bar codes from images between** minimum and maximum fields.

   The values entered in these fields limit the images from which bar codes will be read to only those whose size falls in between these values. This is useful when using bar code header sheets for document separation and indexing that are significantly smaller than the rest of the pages of the document. This option can increase the performance of scanning into the bar code application. When this option is enabled, the minimum default value is 1000 bytes and the maximum default value is 100,000 bytes.

3. Enable **Alternatively search bar codes on rear side** if you want to search for the bar code on the rear side of the document.

   Enabling this option increases document/batch separation and indexing accuracy when pages are accidentally reversed before scanning.

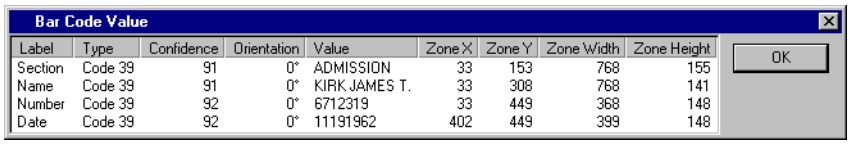
4. Specify a number in the **Number of extra bar codes to search for** field if you want Capture Software to search the image for the specified number of extra bar codes.

   By default, Capture Software searches for bar codes equal to the number of bar code zones defined. Use the **Number of extra bar codes to search for** field when documents contain extraneous bar codes (that will not be used for indexing) in addition to the expected bar codes. It is primarily useful when the expected bar codes are defined to be **Anywhere** on an image with a **Keep bar codes with mask** value. The default is two extra bar codes.

5. Click **OK** to set the general bar code properties you entered.

Displaying bar code values

Bar code values can be displayed by selecting the **Test All Bar Code Zones** button or the **Test Selected Bar Code Zones** button on the Button bar. When you select this option, Capture Software attempts to read all bar code zones defined for a bar code value. If any bar codes are found, the Bar Code Value window appears.



Label	Type	Confidence	Orientation	Value	Zone X	Zone Y	Zone Width	Zone Height
Section	Code 39	91	0°	ADMISSION	33	153	768	155
Name	Code 39	91	0°	KIRK JAMES T.	33	308	768	141
Number	Code 39	92	0°	6712319	33	449	368	148
Date	Code 39	92	0°	11191962	402	449	399	148

The Bar Code Value window shows the following information about each bar code:

- **Label** of the bar code zone.
- **Type** of bar code found in the zone.
- **Confidence** level (in a percentage) of the bar code value found.
- **Orientation** of the bar code (with 0 degrees representing a horizontal and right-side up bar code).
- **Value** of the bar code.
- **X** and **Y** coordinates of the upper left corner of the bar code zone. The coordinates are in 1/100 of an inch and represent the distance of the zone from the upper left corner of the image.
- **Width** and **Height** of the bar code zone in units of 1/100 of an inch.

NOTE: If a bar code value cannot be found for a bar code zone, the zone is still included in the value list with only the Label and zone coordinates displayed.

7 Bar Code and Patch Code Reading with Color Scanners

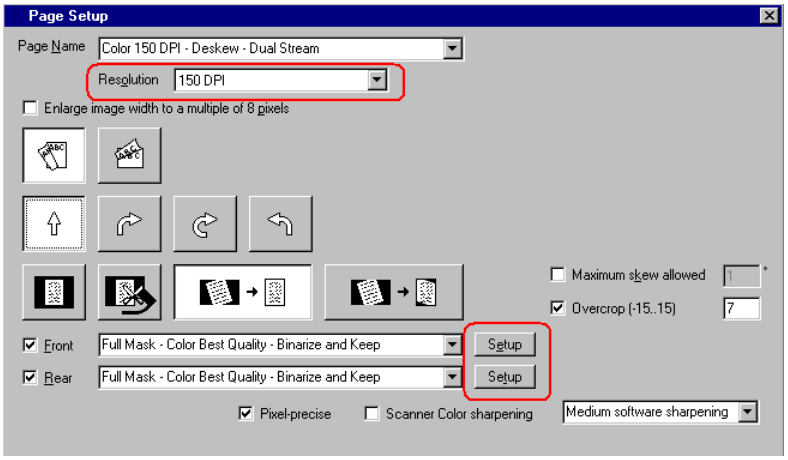
Bar code and patch code reading with Color Scanners 3590C and 4500

When color scanning with the Color Scanner 3590C or Color Scanner 4500, bar code and patch code reading is actually done on the binarized color images. Therefore, binarization must be enabled while scanning in order to perform indexing and document/batch separation from bar codes and patch codes on color images. Because binarization may only be done on 150 dpi color images, bar code and patch code reading is only supported for color scanning at 150 dpi.

All of the bar code and patch code features that are described in Chapter 5, *Patch Code Setup*, and Chapter 6, *Bar Code Setup*, are supported exactly the same for binarized color images as they are for bitonal images when scanning with a black-and-white scanner.

Enabling binarization for bar code and patch code reading

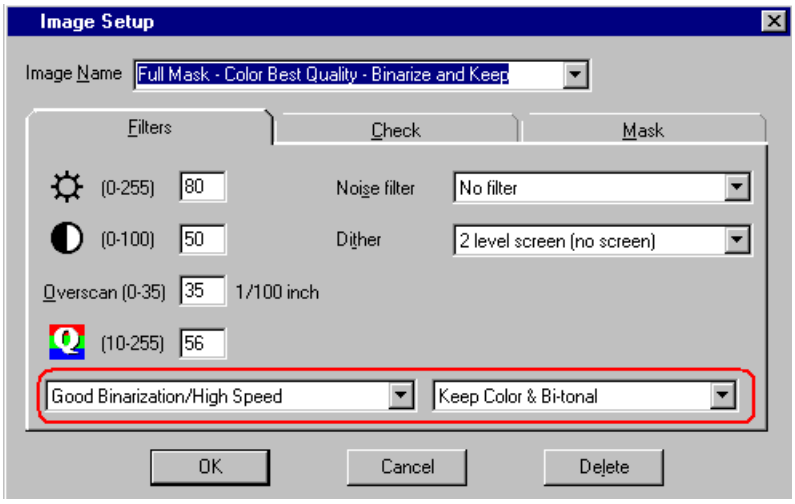
To enable binarization for bar code or patch code reading, you must configure a Page Setup and an Image Setup in the following manner. (For information about Page Setup and Image Setup, refer to Chapter 9, *Setting up Page Properties*.)



1. Select **150 DPI** on the Resolution drop-down list in the Page Setup dialog box.
2. Click on the **Setup** button for the Front and/or Rear image.

   Binarization of color images may be enabled separately for the front and rear images.

If bar code and patch code reading will be configured to **Alternatively search bar codes on rear side**, then binarization should be enabled for both the Front and Rear image setups. However, if for performance reasons you choose to disable searching on the rear, then you need to enable only the Front image setup.



3. Enable one of the Binarization options on the bottom left drop-down list in the Filters tab on the Image Setup dialog box.

   For the best bar code and patch code read rate results, the **Good Binarization/High Speed** setting is recommended.

   If binarization is being performed only for bar code indexing or document/batch separation using patch codes or bar codes, the binarized images may be discarded (and therefore will not be displayed during scanning) after bar code/patch code reading.

   To discard binarized images, select **Keep Color Only** in the bottom right drop-down list in the Filters tab in the Image Setup dialog box.

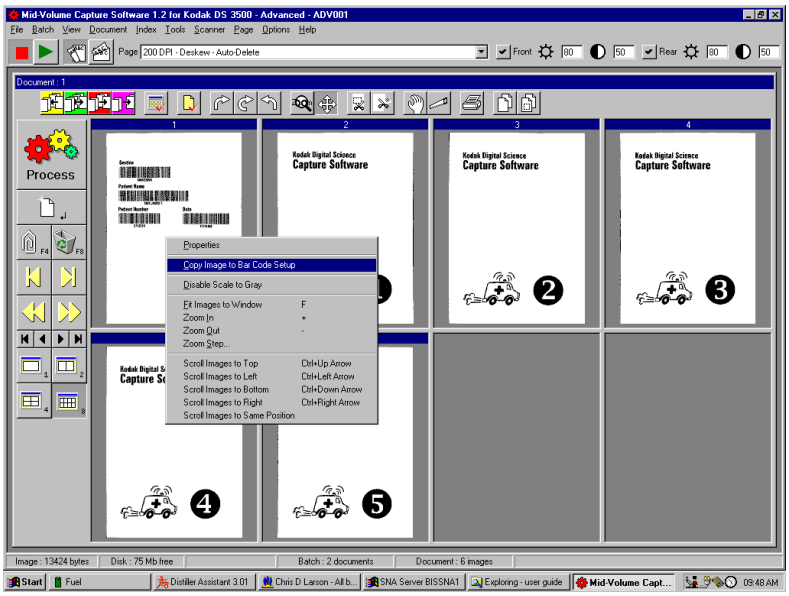
Setting up bar code zones for color scanning

When color scanning, bar code zone setup, as described in Chapter 6, *Bar Code Setup*, may only be done using binarized images.

Follow the steps below to capture a binarized image for the purposes of bar code setup.

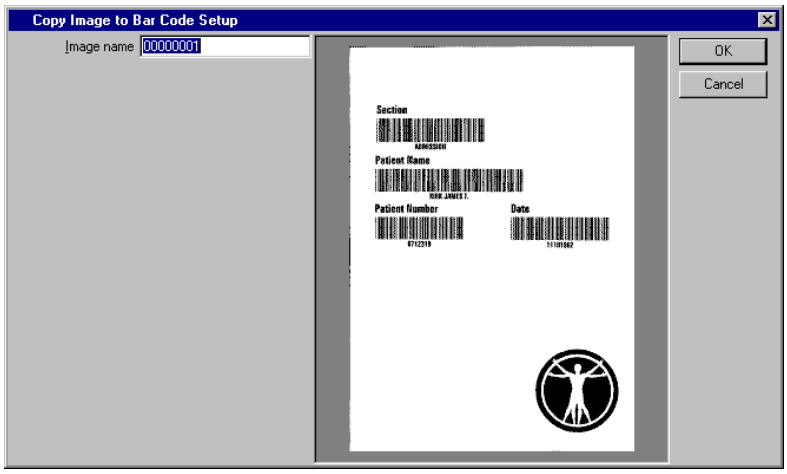
1. Scan the sample bar code page using the *Color 150 DPI – Deskew – Dual Stream* page setup (as provided by Capture Software).
2. Select the binarized image containing bar codes and click the right mouse button.

   The Image context-sensitive menu appears.



3. Select the **Copy Image to Bar Code Setup** option.

   The Copy Image to Bar Code Setup window appears.



4. Enter the new image name.
5. Click **OK**.

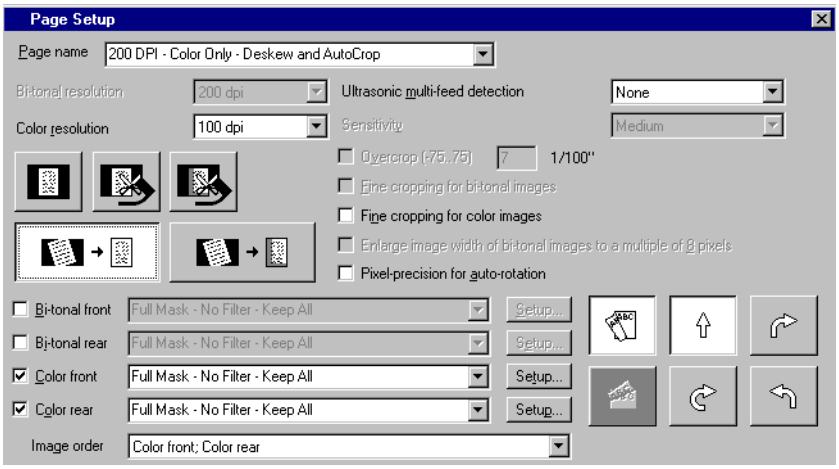
   Once the binarized image has been copied to Bar Code Setup, follow the procedures described in Chapter 6, *Bar Code Setup*, to set up the bar code zone properties.

Bar code and patch code reading with i800 Series Scanners

For all i800 Series Scanners, bar code and patch code reading (when performed by Capture Software) is done using the bitonal front or rear images.

When dual stream scanning (i.e., scanning color and bitonal simultaneously) with an i820 Scanner or i840 Scanner, the bitonal images are used for bar code and patch code reading. When a bar code/patch code is detected, all four images (Color front; Color rear; Bitonal front; Bitonal rear) of the page are either deleted or attached to the new/current document or batch according to your Bar Code/Patch Code Setup.

When color only scanning with an i820 or i840 Scanner, Capture Software will still scan the bitonal images “behind the scenes” using the grayed out bitonal Page and Image setup settings (e.g., Bitonal resolution, Contrast, Threshold).



While the “behind the scenes” bitonal images are never displayed or stored to disk, they are used for bar code and patch code reading. Perform the following steps when setting up your color-only scanning application:

1. Enable the bitonal cameras in Page Setup and adjust the Page and Image bitonal settings as necessary to achieve the best bar code/patch code read rate results.
2. Scan some sample pages in dual stream (color and bitonal simultaneously) to make sure that bar code/patch code reading works correctly.
3. Go back into Page Setup.
4. Disable the bitonal cameras for production color-only scanning.

NOTES: When scanning a sample image in Bar Code Setup for the purposes of defining bar code zones, Capture Software will always scan and display the front bitonal image.

When setting the bitonal resolution to a higher value (e.g., 300 dpi) for the purposes of obtaining better read rates on difficult-to-read bar codes, overall scanner throughput may be affected. For example, if you scan at **100 dpi Color only** and the bitonal resolution is set to 300 dpi, the i840 Scanner will scan at 106 pages per minute (letter landscape) instead of 160 pages per minute. This is because “behind the scenes,” the scanner is still scanning at 300 dpi bitonal.

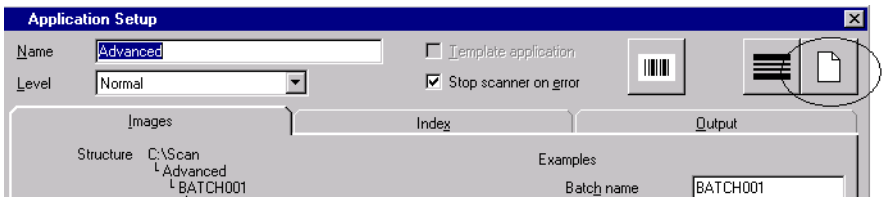
8 Blank Page Setup

Use Blank Page Setup when you want to use blank pages as batch or document separator pages, much in the same way that patch code pages are used. You can also define a blank page to create an attachment.

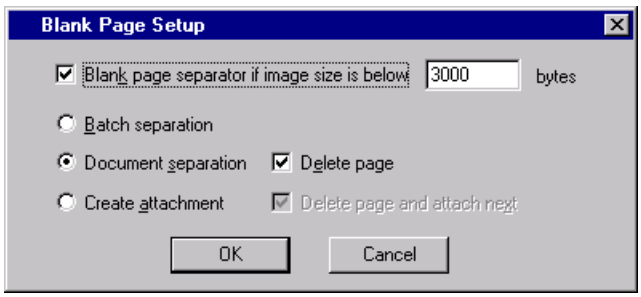
Using the Blank Page Setup dialog box

To access the Blank Page Setup dialog box, follow the steps below.

1. From the Capture Software main window, select the application for which you want to set up blank page information. Access the Application Setup dialog box.
2. Select the Setup Blank Page icon located in the upper right-hand corner of the window.



The Blank Page Setup dialog box appears.



3. Enable all desired options. (See the following explanations of each option.)
4. Click **OK**.

Blank Page Setup dialog box

Following is an explanation of each option available on the Blank Page Setup dialog box.

Blank page separator option

You can enable or disable the Blank page separator option. To use blank pages as separator pages, the check box must be checked.

- If disabled, the rest of the options on this dialog box will be disabled.
- If enabled, you must specify the image size in bytes, below which an image is determined to be a blank page. 3000 bytes is suggested by default. The maximum image size that can be specified is 200,000 bytes to allow for blank page separation when color scanning.

IMPORTANT: The size of both the front and rear image of a page must fall below the byte threshold in order for the page to be determined as blank. The image size is checked against the raw or pure image coming from the scanner before any auto-rotation, auto-crop, and automatic deskew operations are performed.

A blank page can be defined to do one of the following:

- start a new batch
- start a new document (this is the default)
- create an attachment

Batch Separation option

To create a new batch with a blank page, enable the Batch separation option. The blank page will automatically be deleted and the next page scanned becomes the first page of the first document of the batch.

Document Separation options

- Document separation—to create a new document with a blank page, enable the Document separation option. This is the default selection when blank page separation is enabled.
- Delete page—deletes the blank page. The next page scanned becomes the first page of the document.

Create attachment options

- Create attachment—to create an attachment with a blank page, enable the Create attachment option. The page (both front and rear) immediately following the blank page is the attachment. This option is only valid for one page. Therefore, you must insert a blank page before every attachment.

NOTE: Use this option, in conjunction with the option **Create a document every X pages** (Application Setup>Images-Document tab), whenever there is an occasional attachment to documents of a fixed amount of pages.

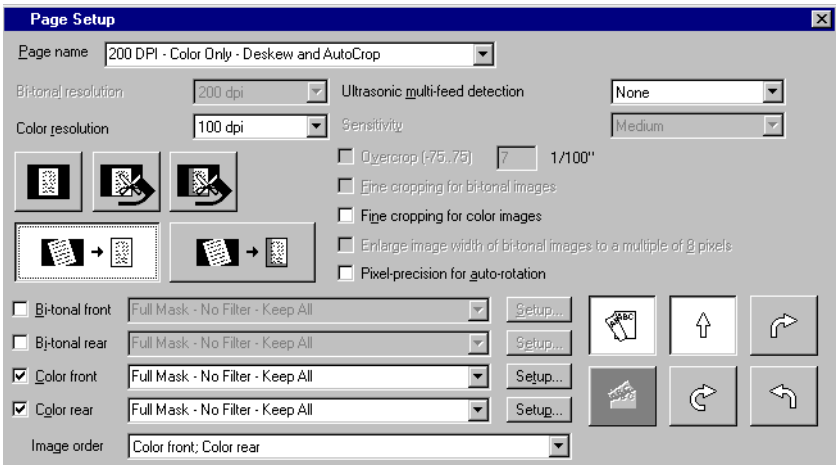
- Delete page and attach next—deletes the blank page and attaches the next page to the document.

Blank page separation with i800 Series Scanners

For all i800 Series Scanners, blank page separation is based on the image size of the bitonal front and rear images.

When dual stream scanning (i.e., scanning color and bitonal simultaneously) with an i820 Scanner or i840 Scanner, the bitonal image size is used to determine a blank page. When a blank page is detected, all four images (Color front; Color rear; Bitonal front; Bitonal rear) of the page are either deleted or attached to the new/current document according to the Blank Page Setup.

When color-only scanning with an i820 Scanner or i840 Scanner, Capture Software will still scan the bitonal images “behind the scenes” using the grayed-out bitonal Page and Image Setup settings (e.g., Bitonal resolution, Contrast, Threshold).



While the “behind the scenes” bitonal images are never displayed or stored to disk, they are used for blank page separation. When setting up your color-only scanning application, you should first scan a sample blank page in dual stream, note the bitonal image size, then set the blank page byte threshold accordingly.

9 Setting Up Page Properties

About Page Setup

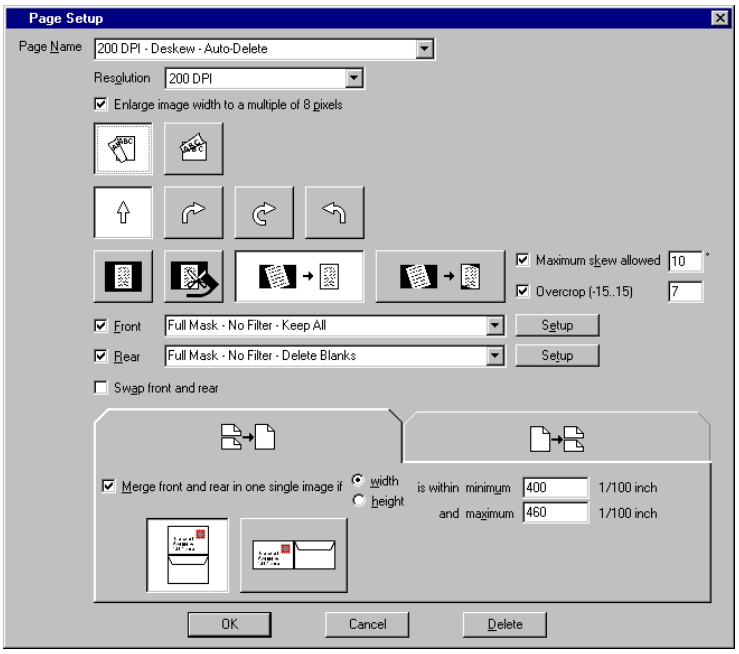
Page Setup allows you to communicate information such as resolution, threshold, contrast, and image filters to the scanner. It also activates Capture Software functions such as auto-rotate, auto-crop, and deskew, and enables the merge and split options. These capabilities, and how to use Page Setup, are described in the sections that follow.

Using Page Setup with the low volume, mid-volume, and high volume scanners

To set Page Setup options for low volume, mid-volume, and high volume scanners (except the i800 Series Scanners):

1. Select **Page>Setup**.

   The Page Setup dialog box appears with the page properties of the page setup name selected from the main Capture Software window.



2. Enter a new page name or select a page name from the **Page Name** drop-down list.

3. Select the image resolution from the drop-down list.

   For low volume and high volume scanners, the **Custom** setting allows you to enter a value between the minimum and maximum resolutions allowed for the attached scanner (e.g., 100 and 600 dpi for the Scanner 2500).

   When scanning in black-and-white with the Scanner 3500, 3510, 3520, and Color Scanner 3590C, possible values are 200 or 300 dpi. When scanning in color with the Color Scanner 3590C and Color Scanner 4500, possible values are 100 or 150 dpi.

   NOTE: When scanning in color with the Color Scanner 3590C, a setting of 100 dpi actually results in front color images of 100 dpi and rear black-and-white images of 200 dpi. Likewise, a setting of 150 dpi results in front color images of 150 dpi and rear black-and-white images of 300 dpi.

4. If you want to add pixels to the right or bottom edge of the image to make it MOD 8 compliant, click the **Enlarge image width to a multiple of 8 pixels** check box.

   Mod 8 compliant means that the number of horizontal pixels of an image is a multiple of eight; some applications require Mod 8 images.

   NOTE: This option will only affect black-and-white images. Color images are not supported.

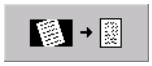
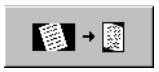
5. Select either **Classic** or **Calendar** duplex mode. See the section entitled “About Duplex modes” in Chapter 3 for more information.

6. Select an auto-rotate option if desired.

   The straight arrow disables auto-rotation. Pages can be rotated 90° ( ), 180° ( ), or 270° ( ) before storing them.

   In cases where any patch codes are defined, the rotation of the page template is first applied, then the patch code is located, then the rotation according to the patch code is applied. The patch code determines the final rotation.

7. Select one of the auto-crop and deskew options.

	Raw Image—no auto-crop or deskew takes place.
	Crop—image is auto-cropped. Black borders around the image are removed. No deskew takes place.
	**Deskew with White Corners**—image is auto-cropped and deskewed on-the-fly immediately after scanning. If image deskew is high and corners are lost during scanning, Capture Software fills in the lost corners with a white background.
	**Deskew with Black Corners**—image is auto-cropped and deskewed on-the-fly immediately after scanning. If image deskew is high and corners are lost during scanning, Capture Software fills in the lost corners with a black background.

NOTES: Deskewing *color images* is reliable up to a skew angle of 10 degrees. Documents with skew angles greater than 10 degrees may still be deskewed, but the likelihood of deskew not being performed increases as the skew angle increases past 10 degrees.

You may have difficulties with color deskew and auto-crop processing on darker color documents (e.g., nighttime photos or documents with dark backgrounds). This is because there is not enough contrast between the document and the image background in order for Capture Software to distinguish the document edges.

When scanning with a scanner equipped with Document Image Manager (i.e., Scanner 3520, Scanner 7520, Scanner 9520), auto-crop and deskew are performed by the scanner during scanning. For these scanners, the Deskew options are different, as shown below.

	Deskew without Borders—image is auto-cropped and deskewed by the scanner. An additional auto-crop is performed by Capture Software to remove any remaining black borders in the image.
	Deskew with Borders—image is auto-cropped and deskewed by the scanner only. No additional auto-crop is performed by Capture Software.

8. If desired, enable the **Maximum skew allowed** check box and enter the allowed degree of skew (1 to 15 degrees).

   When this option is enabled, the scanner stops and a message appears when the degree of skew exceeds the maximum level regardless of whether the **Stop scanner on error** option in the Application Setup is enabled or disabled.

   NOTES: The **Maximum skew allowed** option is not available when you are scanning with a scanner equipped with Document Image Manager (deskew is performed by the scanner during scanning).

   Maximum skew allowed is not yet functional on color images and therefore cannot be used when scanning with a Color Scanner 4500.

9. Select the **Overcrop** check box to remove or append additional pixels to all sides of an auto-cropped image. Enter the amount of overcrop in pixels (-15 to 15).

   After deskew and auto-crop, a small black border may still remain on portions of the images. Overcrop can completely remove any remaining black border.

   NOTES: A negative overcrop value will add pixels to each image.

   Overcrop is not yet functional on color images.

10. Set any front or rear image setup options. Capture Software allows different image setups for *front* and *rear* sides of a page.

    To set the front or rear options:

    Check the **Front** (or **Rear**) check box.

    - Select the desired image setup for both front and rear sides from the drop-down list box.
    - If you want to create a new image setup or modify the one selected, click **Setup**. The Image Setup dialog box appears.
    - Select the desired options on the **Filters**, **Check** and **Mask** tabs.
    - Click **OK** on each tab when you are finished setting options.

    For complete details on image setup, see the section entitled “Using Image Setup.”

    NOTE: When scanning from the Scanner 1500 flatbed, the Front image setup is used.

11. If required, enable the **Swap Front and Rear** check box to automatically swap the front and rear images of a page immediately after scanning.

    This option is useful when pages are scanned with the rear side up on purpose (e.g., rear side is carbon-backed, which would contaminate the feeder rollers if scanned front side up.)

    NOTES: When you scan in simplex mode, the **Swap Front and Rear** option will cause an error during scanning. Disable the Swap Front and Rear option when you scan in simplex mode.

    Swap Front and Rear is not available when scanning with the Color Scanner 4500.

    When binarizing color images when scanning with the Color Scanner 3590C, using **Swap Front and Rear** causes unpredictable results. Disable the Swap Front and Rear option when binarizing color images.

12. Select any merge and split options.

    See the section entitled “Using the Merge and Split options” for setting up and using these options.

    NOTE: The merge and split options are not available when scanning with the Color Scanner 4500.

13. Specify any additional page properties for the attached scanner.

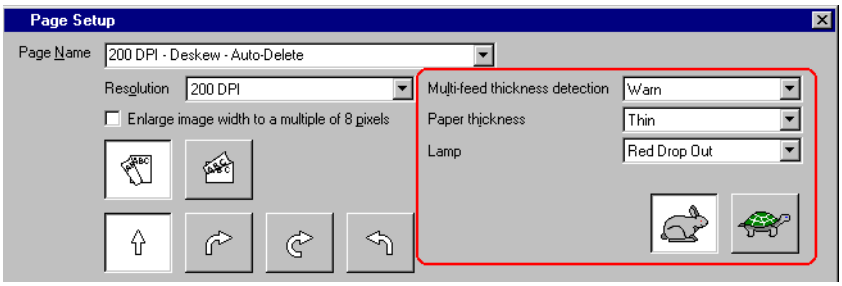
    See the section entitled “Scanner-specific page properties” for more information.

14. Click **OK** when you are finished selecting all options.

    NOTE: The **Delete** button deletes the selected page setup and removes it from the list of page setups.

Scanner-specific page properties

For the Scanner 1500, Scanner 2500, and all of the mid-volume scanners (Series 3000/4000 Scanners) except for the Scanner 3500, additional page properties can be selected in the Page Setup dialog box.



Additional page properties for the Scanner 1500 and Scanner 2500

Multi-feed thickness detection—select either None or Warn from the drop-down list. When enabled, the scanner warns you with an audible alarm whenever a scanned sheet of paper is detected to be thicker (commonly caused by a multi-feed) than a single sheet.

Paper thickness—when Multi-feed thickness detection is enabled, the sensitivity of the multi-feed detection is based upon the paper thickness setting. Select Thin, Normal, or Thick from the drop-down list. Select Thin for high sensitivity and more frequent occurrences of multi-feeds. Select Thick for low sensitivity and less frequent occurrences of multi-feeds.

Lamp—select either Normal or Red Drop Out from the drop-down list. The Scanner 2500 has a built-in red drop-out lamp that can be selected to remove all red text and shaded areas from scanned images, leaving just the pertinent information. This reduces image content and file size.

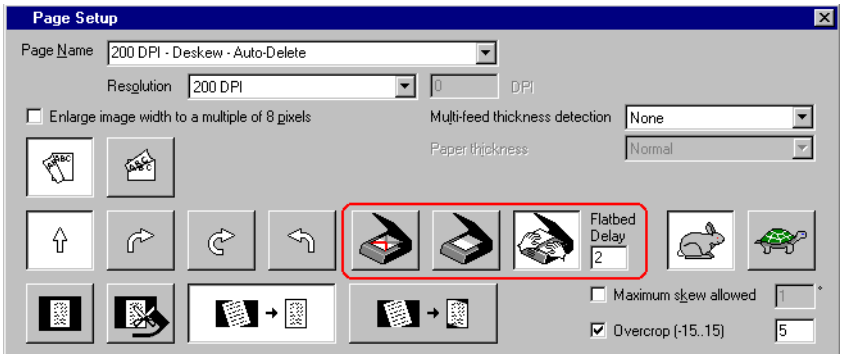
NOTE: The Lamp option is not available for the Scanner 1500.

Fast Feeder Speed—for normal documents, select the fast feeder speed (rabbit icon). This is the default.

Slow Feeder Speed—select the slow feeder speed (turtle icon) for delicate documents that may jam at a faster feeder speed.

Flatbed properties for the Scanner 1500

When flatbed scanning is enabled, the Scanner 1500 scans only the flatbed when nothing is in the document feeder.



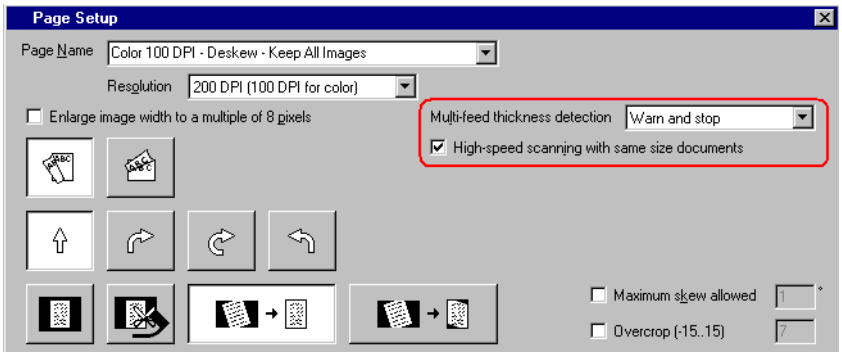
Do not use flatbed—select this icon to disable flatbed scanning.

Use flatbed once—select this icon to enable flatbed scanning one page at a time. The scanner will stop after the item on the flatbed is scanned. You must start the scanner in Capture Software for each page scanned with the flatbed.

Use flatbed repeatedly—select this icon to enable flatbed scanning for continuous scanning. The flatbed is scanned repeatedly at regular intervals until you stop the scanner in Capture Software. This option can be useful when scanning books.

Flatbed Delay—when **Use flatbed repeatedly** is selected, the amount of time between flatbed scans in based upon the number of seconds specified in the Flatbed Delay setting. The amount of time that the scanner takes to complete a flatbed scan depends on the scan resolution and the document size. The higher the resolution and the larger the document, the longer the scan time. As a result, a delay value greater than 0 may not be necessary for certain applications.

Additional page properties for mid-volume scanners


Page Setup
Page Name
Color 100 DPI - Deskew - Keep All Images
Resolution
200 DPI (100 DPI for color)
Enlarge image width to a multiple of 8 pixels
Multi-feed thickness detection
Warn and stop
High-speed scanning with same size documents
Maximum skew allowed
Overcrop (-15..15)

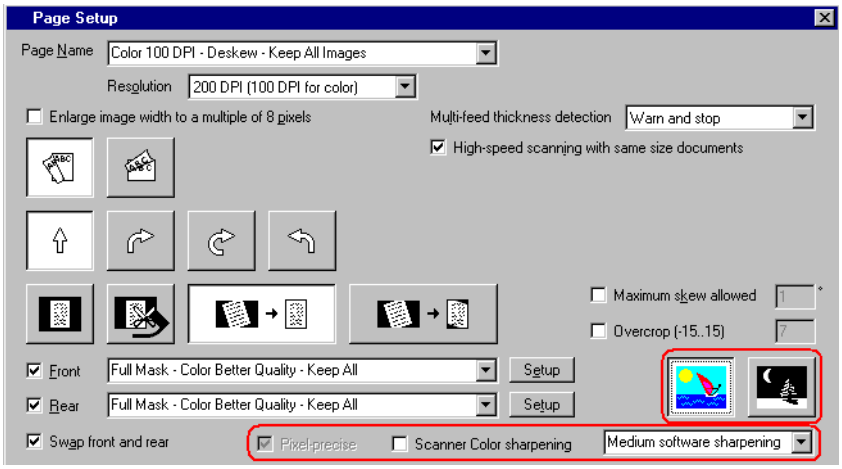
For all Kodak mid-volume scanners (Series 3000/4000 Scanners) except for the Scanner 3500, the following additional page properties are available:

Multi-feed thickness detection—select None, Warn, or Warn and Stop from the drop-down list. When enabled, the scanner warns you with an audible alarm whenever a scanned sheet of paper is detected to be thicker (commonly caused by a multi-feed) than a single sheet. The detection is based on the thickness of a scanned sheet of paper used in the Multi-feed Thickness Calibration (accessed from the Scanner menu).

When Warn and Stop is selected, the scanner stops immediately when a multi-feed is detected. You must open the scanner and remove the multi-feed sheets before you can resume scanning.

High-speed scanning with same size documents—select this check box if you are scanning batches that contain sheets that are all the same size. This enables the scanner to scan at a faster rate of pages per minute. Specifically, for example, scanner throughput increases from 75 pages per minute to 85 pages per minute for letter-size documents that are scanned in landscape mode at 200 dpi (100 dpi for color).

Additional page properties for color scanners



For the Color Scanner 3590C and Color Scanner 4500, the following additional page properties are available:

Pixel precise—when the page setup is configured to do auto-rotation and/or auto-cropping of color images *without deskew*, then this check box becomes available. When enabled, Capture Software will perform pixel-precise auto-rotation and/or auto-cropping. Enabling pixel-precise should result in the complete removal of any black borders around the color image that may remain if pixel precise were disabled.

NOTES: Auto-cropping and auto-rotation are more accurate with pixel-precise enabled, but they are slower than when pixel-precise is disabled.

When one of the deskew options is enabled, pixel-precise is automatically enabled, as color deskew processing always includes pixel-precise auto-cropping.

Scanner Color sharpening—enable this check box to configure the scanner to perform color sharpening as part of the scanning process. Color sharpening improves the readability of small text (8-point type or smaller) on color documents. By default, scanner color sharpening is enabled when color deskew processing is disabled.

However, when color deskew processing is enabled, **Scanner Color sharpening** is automatically disabled. With color deskew processing, color sharpening needs to be performed by the software after deskew. As a result, Scanner Color sharpening should be disabled and software sharpening should be enabled.

Software sharpening—select No software sharpening, Low, Medium, or High on the drop-down list. When enabled, color sharpening is performed by the software after all other color image processing. When color deskew processing is enabled, software sharpening is automatically enabled (and is highly recommended). Medium is the default setting. When color deskew processing is disabled, software sharpening is automatically disabled. The higher the software sharpening setting, the better small characters will be able to be read after color deskew processing. However, a higher setting will result in larger color images sizes and slower color image and deskew processing.

Color Scanner 3590C only page properties

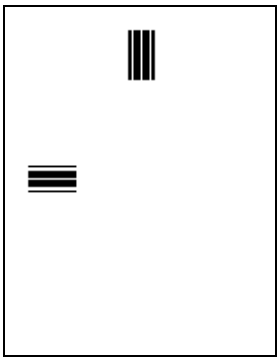
The following properties are available only with the Color Scanner 3590C.

Start scanning in color—when performing color scanning (front color, rear black and white), select this icon to start the Color Scanner 3590C in color mode.

Start scanning in black and white—when performing black-and-white scanning (both front and rear black-and-white), select this icon to start the Color Scanner 3590C in black-and-white mode.

Color patch detection

When you scan with the Color Scanner 3590C, Capture Software enables detection of the Kodak color patch document.



This patch document, when detected by the scanner, automatically switches the scanner from color to black-and-white mode or black-and-white to color mode.

This option is useful when scanning a mixture of color and black-and-white documents. Another use for this feature is when you are scanning bar code header sheets (which can be read only in black-and-white mode) followed by color documents.

It is important to note that whenever the Color Scanner 3590C is stopped and restarted in Capture Software, the scanner will always be restarted in the mode defined in the selected Page Setup.

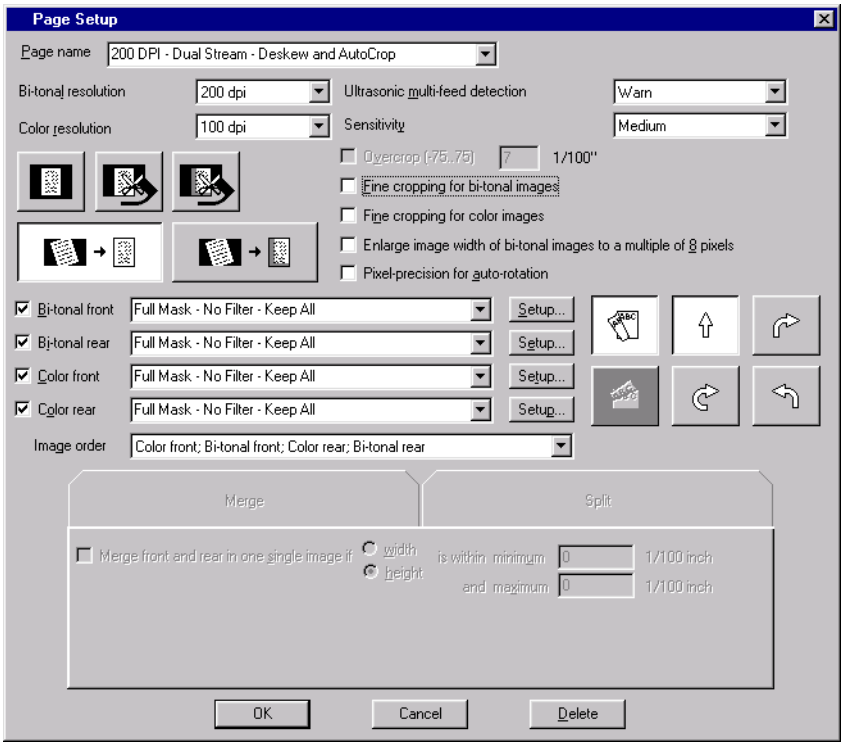
IMPORTANT: Therefore, if the scanner starts in color mode, is switched to black-and-white mode via a patch, then is stopped (because of a time-out condition, paper jam, user intervention, etc.), the scanner will be restarted in color mode.

Using Page Setup with the i800 Series Scanners

To set Page Setup options for the i800 Series Scanners:

1. Select **Page>Setup**.

   The Page Setup dialog box appears with the page properties of the page setup name selected from the main Capture Software window.



2. Enter a new page name or select a page name from the **Page name** drop-down list.
3. Select the **Bi-tonal resolution** and/or **Color resolution** from the drop-down list(s).

   The following table provides the valid resolution values for bitonal and color scanning, as well as the valid combination of resolutions when dual-stream scanning.

Bitonal Resolution (dpi)	Color Resolution (dpi)
200	200, 150, 100
300, 240	300, 200, 150, 100
400	300, 200

NOTES: For the i810 Scanner and i830 Scanner, which are bitonal only scanners, the color image resolution setting is not available.

For the i820 Scanner, the Color resolution value of 300 dpi is not available.

When color-only scanning with an i820 Scanner or i840 Scanner, the Bi-tonal resolution setting is not available (i.e., is grayed out) in the Page Setup dialog.

IMPORTANT: When color-only scanning, Capture Software "behind the scenes" will still scan in dual-stream using the grayed-out bitonal Page and Image settings. The bitonal images will never be displayed or stored to disk, but they will be used as necessary for blank page separation, bar code reading, etc. As a result, the grayed-out bitonal resolution may dictate the speed at which the scanner runs. For instance, if the color resolution is set to 100 dpi, but the grayed out bitonal resolution is set to 300 dpi, the scanner will run at a slower transport speed due to the 300 dpi bitonal setting.

4. Select a multi-feed detection option from the **Ultrasonic multi-feed detection** drop-down list.

   Choose from either None, Warn, or Warn and Stop.

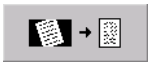
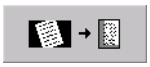
   When enabled, the scanner warns you with an audible alarm whenever a multi-feed is detected (commonly caused by 2 or more pages stuck together as they pass through the feeder). A message is also displayed on the scanner operator console. The scanner remains enabled and continues to scan.

   When Warn and Stop is selected, the scanner feeder and transport stop immediately when a multi-feed is detected. The scanner remains enabled and scanning can be continued by pressing the green button on the scanner operator console.

5. When Ultrasonic multi-feed detection is enabled, select a multi-feed sensitivity from the **Sensitivity** drop-down list.

   Choose from either Low, Medium, or High. Select High when scanning thinner documents for more frequent occurrences of multi-feeds. Select Low when scanning thicker documents for less frequent occurrences of multi-feeds.

6. Select one of the auto-crop and deskew options.

	Disable black border removal and deskew—no auto-crop or deskew takes place in the scanner. Also referred to as Fixed Cropping relative to the scanner transport. The settings in the Mask tab of each Image Setup (see the section entitled “Using Image Setup with the i800 Series Scanners” later in this chapter) determine the image produced by the scanner.
	Remove black borders—the image is auto-cropped by the scanner. No deskew takes place.
	Zone processing—the image is auto-cropped by the scanner. No deskew takes place. Also referred to as Relative Cropping to the document edge. In addition, the settings in the Mask tab of each Image Setup determine what portion of the auto-cropped image will be produced by the scanner. See the section entitled “Zone processing” later in this chapter for important information about properly setting up Zone processing.
	**Remove black borders and deskew**—the image is auto-cropped and deskewed by the scanner.
	**Deskew and zone processing**—the image is auto-cropped and deskewed by the scanner. In addition, the settings in the Mask tab of each Image Setup determine what portion of the image will be produced by the scanner. See the section entitled “Zone processing” later in this chapter for important information about properly setting up zone processing.

7. Select the **Overcrop** check box to remove or append additional pixels to all sides of a Fine cropped image (i.e., when Capture Software performs additional auto-cropping).

   NOTES: **Overcrop** is not yet functional on color images. When enabled, only bitonal images will be affected.

   Overcrop is only available for selection when **Fine Cropping** is enabled.

8. Enter the amount of overcrop in 1/100 of an inch (-75 to 75).

   NOTE: A negative Overcrop value will add pixels to each image.

9. Select the **Fine cropping for bi-tonal images** check box to have Capture Software perform an additional auto-crop to remove any remaining black borders on bitonal images.

   NOTE: This option is only available when bitonal scanning is enabled.

10. Select the **Fine cropping for color images** check box to have Capture Software perform an additional auto-crop to remove any remaining black borders on color images.

    NOTES: This option is only available when color scanning is enabled.

    The **Fine cropping** options are only available when Deskew and/or Auto-crop has been selected.

*IMPORTANT: When **Fine cropping for color images** (for bitonal and color) is selected, the performance and throughput of Capture Software may decrease significantly depending on the speed of the processor on your host PC. This is why the Fine cropping options are separately selectable for color and bitonal.*

You may have difficulties with Fine Cropping on darker color documents (e.g., nighttime photos or documents with dark backgrounds). This is because there is not enough contrast between the document and the remaining black border in the image in order for Capture Software to distinguish the document edges.

11. If you want to add pixels to the right or bottom edge of the image to make it MOD 8 compliant, click the **Enlarge image width of bi-tonal images to a multiple of 8 pixels** check box.

    Mod 8 compliant means that the number of horizontal pixels of an image is a multiple of eight; some applications require Mod 8 images.

    NOTE: This option will only affect black-and-white images. Color images are not supported.

12. Select the **Pixel-precision for auto-rotation** check box if desired.

    When the page setup is configured to do auto-rotation and color scanning, then this check box becomes available. When enabled, color image auto-rotation should be very precise and should not result in any residual black border showing up in the auto-rotated images that may appear if pixel-precision were disabled.

    NOTES: Auto-rotation is more accurate with pixel-precision enabled, but it is slower than when pixel-precision is disabled.

    When fine cropping for color images is enabled, pixel-precision is automatically enabled, as fine cropping for color images is always a pixel-precise operation.

*IMPORTANT: When **color scanning** and performing auto-rotation, the performance and throughput of Capture Software may decrease significantly depending on the speed of the processor on your host PC. You may actually achieve better overall throughput by scanning in portrait mode so as to avoid having to perform auto-rotation on color images.*

13. Select either **Classic** or **Calendar** duplex mode.

    See the section entitled “About Duplex modes” in Chapter 3, *Working in Capture Software*, for more information.

    NOTE: Calendar duplex mode is not available for color scanning.

14. Select an auto-rotate option if desired.

    The straight arrow disables auto-rotation. Pages can be rotated 90° ( ), 180° ( ), or 270° ( ) before storing them.

    In cases where any bar codes are defined, the rotation of the page template is first applied, then the bar code is located, then the rotation according to the bar code is applied. The bar code determines the final rotation.

15. Set any front or rear image setup options.

    Capture Software allows different image setups for *front* and *rear* sides of a page for both color and bitonal (black and white) scanning.

    To set the front or rear options:

    Check the **Bi-tonal front**, **Bi-tonal rear**, **Color front**, or **Color rear** check box.

    - Select the desired image setup for the selected front and rear sides from the drop-down list box.
    - If you want to create a new image setup or modify the one selected, click **Setup**. The Image Setup dialog box appears.
    - Select the desired options on the **Filters**, **Check**, **Mask**, and **Color Dropout** tabs.
    - Click **OK** on each tab when you are finished setting options.

    For complete details on image setup, see the section entitled “Using Image Setup with the i800 Series Scanners.”

    NOTES: For the i810 Scanner and i830 Scanner, only the bitonal page and image setup options are available.

    For dual-stream scanning, enable at least one bitonal image and one color image.

    When color scanning, bitonal scanning is still performed “behind the scenes” using the grayed-out bitonal page and image settings. Bitonal images will never be displayed or stored to disk, but will be used, as necessary, to perform functions such as blank page separation, bar code reading, etc.

16. Select an image output order on the **Image order** drop-down list.

    The image order specifies how images are displayed “on the fly” during scanning and stored to disk. The default for dual-stream scanning is Color Front, Bitonal Front, Color Rear, Bitonal Rear.

17. Select any merge and split options.

    See the section entitled “Using the Merge and Split options” for setting up and using these options.

18. Click **OK** when you are finished selecting all options.

    NOTE: The **Delete** button deletes the selected page setup and removes it from the list of page setups.

Zone processing

Zone processing in the i800 Series Scanners allows you to define different zones for bitonal and color images when dual-stream scanning. It is particularly useful, for example, in insurance applications where a claim form may contain a photograph of a damaged vehicle, and so forth. With Zone processing, you can produce a bitonal image of the entire claim form while at the same time producing a color image that contains only the photograph.

When **Zone processing** is selected, scanned pages will always be auto-cropped (and optionally deskewed) in the scanner. Zone definitions for each image (as defined in the Mask tab of Image Setup in Capture Software) are based on the upper left corner of the auto-cropped page.

In Capture Software, when Zone processing is enabled, all of the images selected must have a zone definition in the Mask tab. As a result, Capture Software assumes that Zone processing will only be done when scanning same size documents.

In order to set up Zone processing properly, it is important that each zone definition (as defined in the Mask tab) **must not be larger or fall outside of the dimensions of the physical pages being scanned**. If all zone definitions do not follow this general rule, then the scanner will report a “Check Document Preparation” error and scanning will stop.

For example, let’s assume that an automobile accident claim form is to be zone processed. The desired output is a full image of the Front Bi-tonal, Rear Bi-tonal, and Rear Color. However, for the Front Color, only the picture of the damaged vehicle is required. The claim form is a letter-size document (8.5 by 11 in.) scanned in portrait mode. The 2 x 2 in. photograph is located five inches in from the left side and four inches down from the top of the page. The following zone definitions will achieve the desired result (where the dimensions of the zone definitions are in 1/100 in.).

	Left	Top	Width	Height
Bi-tonal front	0	0	850	1100
Color front	500	400	200	200
Bi-tonal rear	0	0	850	1100
Color rear	0	0	850	1100

Using Image Setup with low volume, mid-volume, and high volume scanners

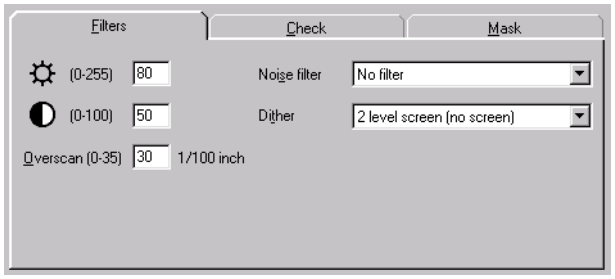
Image Setup for low volume, mid-volume, and high volume scanners (except the i800 Series Scanners) provides three tabs: Filters, Check, and Mask. Following are descriptions of these tabs.

NOTE: The **Delete** button on the Image Setup dialog box allows you to delete an image setup and remove it from the list of available image setups.

Filters tab

The Filters tab is different for each Capture Software product.

Filters tab for mid-volume scanners



Threshold—threshold controls the lightness and darkness of the background in an image. As the threshold value increases, more of the darker grays in the image turn black. As the threshold value decreases, fewer darker grays turn black. Enter a value between 0 and 255.

Contrast—contrast enhances the edges contained in a document. Increasing the contrast level sharpens the image edges. Decreasing the contrast level softens the image. Enter a value between 0 and 100. Setting the Contrast to “0” enables Fixed Thresholding and disables Adaptive Threshold Processing (ATP).

Overscan—controls the gap between images. Enter a value between 0 and 35 (1/100 inch). A wider gap makes deskew more reliable and prevents any loss of corners. The default is “30” for bitonal scanning and “35” for color scanning.

NOTE: When drawing a mask in the Mask tab to define the Scan area, it is highly recommended that you set Overscan to “0.”

Noise filter—these options are available to help increase the compression ratio and improve the appearance of document images.

- Majority Rule—determines central pixel data according to the number of white and black pixels.
- No Filter—no enhancement is done to the images.
- Remove Lone Pixels—reduces random noise on bitonal images by converting a black pixel surrounded by white pixels to white and by converting a white pixel surrounded by black pixels to black.

NOTES: Using the noise filter on documents containing very fine detail (e.g., the dot on an “i” in 4-point type) may cause information to be lost. It is recommended that the noise filter not be used when scanning documents with text smaller than 7-point type.

Using the noise filter in conjunction with thresholding will optimize the appearance of document images.

Do not use the noise filter with screening (dithering).

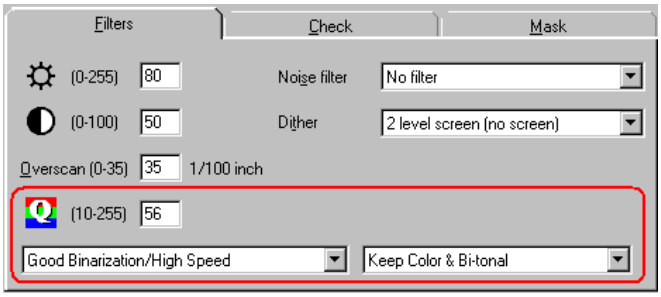
Dither Pattern—dithering is a way to simulate gray shades and should be used for scanning photos. It is not recommended for text-only images. Four options are available:

- 2-level screen (no screen)

  Always use 2-level screen with business documents. The other dithering options significantly increase the file sizes of the electronic images. Also, for OCR reading it is critical that you use 2-level dithering. The other dithering options decrease the read rate of any OCR system.

- 64-level 45° Clustered Dot Screen
- 64-level Bayer Dither
- 64-level Dispersed Dot Screen

Additional settings for the Color Scanner 3590C and Color Scanner 4500



When color scanning with the Color Scanner 3590C or Color Scanner 4500, the settings for **Noise filter** and **Dither** are not used. In addition, **Threshold** and **Contrast** are not used unless you are binarizing color images.

JPEG Quality—JPEG quality controls the amount of file compression performed by the scanner when producing JPEG images. Enter a value between 10 and 255. A higher setting increases image compression (resulting in smaller file sizes), but decreases image quality. A lower setting decreases image compression (resulting in larger file sizes), but improves image quality. The following settings can be used as guidelines.

Image Quality	Setting
Good	200
Better	120
Best	56

Binarization of color images—MultiStream™ processing (where a black-and-white image is produced for each color image) can be achieved by enabling one of the Binarization options. When enabled, binarization is done on-the-fly during scanning. Select one of the following from the drop-down list:

- No Binarization—disables binarization of color images in the image setup.
- Best Binarization/Low Speed—enables binarization of color images in the image setup. Binarization is done in software on the host PC and produces the best binarization results at low speed (i.e., at approximately half of the rated speed on the Color Scanner 4500 running in duplex mode).
- Good Binarization/High Speed—enables binarization of color images in the image setup. Binarization is done in software on the host PC and produces good binarization results at high speed (i.e., at approximately the rated speed of the Color Scanner 4500 running in duplex mode; assumes a 750 MHz processor on the host PC).
- Hardware – Best Binarization/High Speed—enables binarization of color images in the image setup. Binarization is done in hardware and produces the best binarization results at high speed. A THR2 board (from Picture Elements) is required to be installed on the host PC. For more information on THR2 and how to acquire a THR2 board, refer to the Picture Elements web site at www.picturel.com.

NOTES: When a THR2 board is installed on the host PC, only the Hardware – Best Binarization/High Speed option is available for selection.

Binarization is supported only when the scanning resolution is 150 dpi. The binarization options are not available when the resolution is set to 100 dpi.

Adjusting the Threshold and Contrast settings in the Filters tab will affect binarized images in the same way as black-and-white scanned images.

Binarized images are upscaled from 150 dpi color images to 200 dpi and are stored as Group 4 TIFF files in Capture Software.

Binarization takes place after color deskew and auto-crop (when enabled). Therefore, Capture Software does not perform deskew/ auto-crop processing on binarized images.

Binarized image retention and display—when binarization is enabled, the following drop-down list of image retention options is available for selection:

- Keep Color & Bi-tonal—displays and saves to disk both the color "parent" image and the binarized image. This is the default selection.
- Keep Color only—displays and saves to disk only the color image. The binarized image is discarded. Use this option when binarization is used only for the purposes of reading bar codes or patch codes on color images.
- Keep Bi-tonal only—displays and saves to disk only the binarized image. The color image is discarded.

Binarized images are displayed on-the-fly during scanning with their "parent" color images. In general, binarized images are displayed before the color images. Capture Software will always try to preserve a Front/Rear image relationship when binarization is enabled. As a result, you can expect the following image order for these scenarios:

Scenario	Result
Color Scanner 4500 Duplex binarize both front and rear	Front bitonal; Rear bitonal; Front color; Rear color
Color Scanner 3590C binarize front	Front bitonal; Rear bitonal; Front color
Color Scanner 4500 Duplex binarize only the front	Front bitonal; Rear color; Front color
Color Scanner 4500 Duplex binarize only the rear	Front color; Rear bitonal; Rear color

NOTE: When auto-deletion of images is enabled in the image setup along with Binarization, the *binarized image size is compared against the byte threshold*. Both the binarized and the color "parent" images will be deleted when the binarized image size falls below the byte threshold.

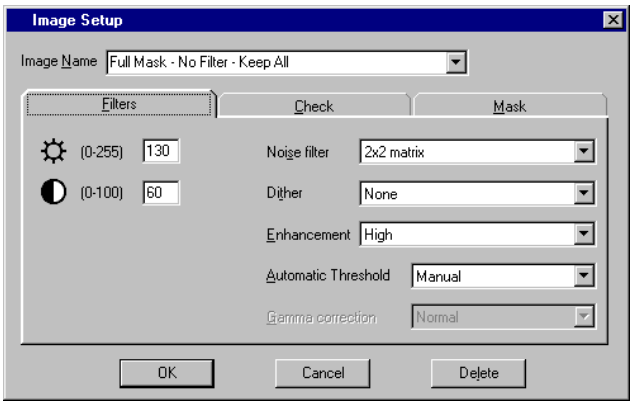
Installation requirements for binarization

To activate the ability to binarize color images, you must install the binarization support libraries from the CD supplied with your color scanner. *These libraries are not installed with Capture Software*.

The binarization support libraries are installed when installing the Host Diagnostics application for your Color Scanner 3590C or Color Scanner 4500. Version 2.2.25, or later, of Host Diagnostics is required. To install Host Diagnostics, you must run the **SETUP.EXE** program located in the **DIAGS** directory on the Scanner CD.

If you have a THR2 board to perform binarization, the Host Diagnostics application must be installed before executing the installation program provided with the THR2 board.

Filters tab for the Scanner 1500 and Scanner 2500



Threshold—threshold controls the lightness and darkness of the background in an image. As the threshold value increases, more of the darker grays in the image turn black. As the threshold value decreases, fewer darker grays turn black. Enter a value between 0 and 255. The default is “130.”

Contrast—contrast enhances the edges contained in a document. Increasing the contrast level sharpens the image edges. Decreasing the contrast level softens the image. Enter a value between 0 and 100. The default is “60.”

Overscan—provides a small amount of black border to the tops and the bottoms of scanned images to help prevent any loss of corners due to document skew. Overscan also makes deskew and auto-crop more reliable. Any value above “0” enables Overscan. A value of “0” disables Overscan.

Noise filter—black spots (noise) on an image may result in larger compressed file sizes and may reduce the rate of OCR recognition. Select None for no noise reduction or specify a noise reduction level from 1x1 matrix to 6x6 matrix. The default is “2x2 matrix.”

NOTES: Using a larger matrix on documents containing very fine detail (e.g., the dot on an “i” in 4-point type) may cause information to be lost.

Noise filter is not available when Dithering or Automatic Threshold is enabled.

When scanning in duplex mode, the Noise filter setting for the front and rear Image Setup must be the same. As a result, the Noise filter setting for the front Image Setup will be used for both the front and rear images.

Dither—dithering is a way to simulate gray shades and should be used for scanning photos. It is not recommended for text-only images. Seven options are available:

- None—also referred to as binary mode. This is the default setting. Always select this setting for text-only business documents. The other dithering options significantly increase the image file sizes. Also, for OCR reading, it is critical that you do not use any of the dithering options because they decrease the read rate of any OCR system.
- 64 level Bayer Dither
- 16 level Bayer Dither
- 32 level halftone
- 64 level halftone
- Error Diffusion—this option is recommended for photographs because it uses single pixels. This results in photographs that are more pleasing to the eye. The other dithering options use a matrix of pixels to simulate grayscale.
- Automatic Dithering—also called automatic separation. Use this option when you are scanning documents that are a mixture of text and photographs. When this option is selected, the scanner automatically recognizes and separates text and photographs. Text is scanned in binary mode (no dithering) and photographs are scanned using the Error Diffusion dithering pattern. Automatic separation, however, is not perfect. You will get better results using Image Segmentation (See the section entitled "Additional Mask settings for the Scanner 1500 and Scanner 2500").

NOTES: Noise filter and Automatic Threshold are not available when a dithering option is selected.

Gamma Correction is not available when None (binary mode) is selected in Dithering.

When scanning in duplex mode, if Automatic Dithering is selected for the front Image Setup, it will automatically be selected for the rear Image Setup.

Enhancement—also referred to as image emphasis. These selections adjust the scanning image quality. There are five mode levels: Smooth, None, Low, Medium, and High. If you select Smooth, the image will be soft with decreased noise. If you select High, the image will be sharp with clearly displayed thin lines. The default is "High."

Automatic Threshold—when Automatic Threshold is enabled, image processing parameters (e.g., Threshold and Contrast) are automatically set in accordance with the scanning resolution. Any Threshold and Contrast settings are ignored. Four options are available:

- Manual—Automatic Threshold is disabled. This is the default.
- Level 1—suitable for dark documents.
- Level 2—suitable for normal documents
- Level 3—suitable for light documents.

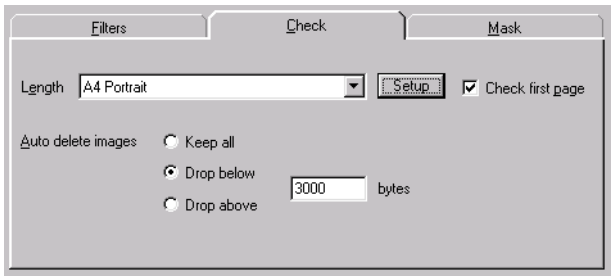
NOTES: Automatic Threshold is available only when None (binary mode) is selected in Dithering.

When Automatic Threshold is enabled, all other imaging processing parameters (i.e., Noise filter, Enhancement, and Gamma Control) are ignored and therefore disabled.

When scanning in duplex mode, the Automatic Threshold setting for the front and rear Image Setup must be the same. As a result, the Automatic Threshold setting for the front Image Setup will be used for both the front and rear images.

Gamma Correction—this option is available only when Dithering is enabled. Dithered data from the scanner is converted to output by a gamma correction curve, which is the curve of the shade adjustment. There are two selections: Normal and For CRT. When you are scanning mainly for the purpose of viewing a picture on a computer screen, select For CRT. The default is “Normal.”

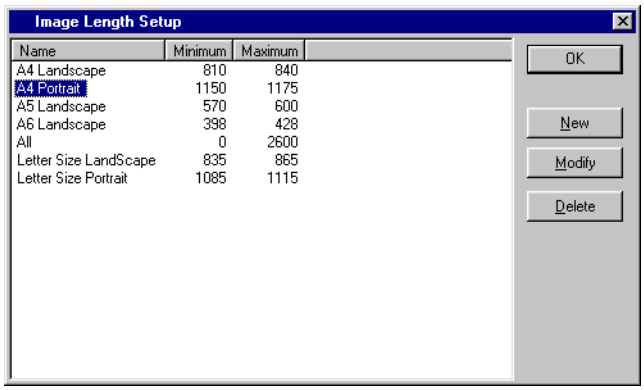
Check tab



Length—select a length type from the drop-down list. Capture Software checks the length of every scanned image and gives a warning (*Image too short* or *Image too long*) when the image length does not comply with the selected length type (i.e., is not between the minimum and maximum length). The length check is useful for detecting document double-feeds. Selecting **All** disables Length Check.

Setup—accesses the Image Length Setup dialog box. From this dialog box you can modify existing Length Check templates, create new ones, or delete Length Check templates.

NOTE: Minimum and maximum values are in 1/100-inch.



The Length Check is performed after auto-rotate, auto-crop, and deskew and prior to any splitting or merging that may take place.

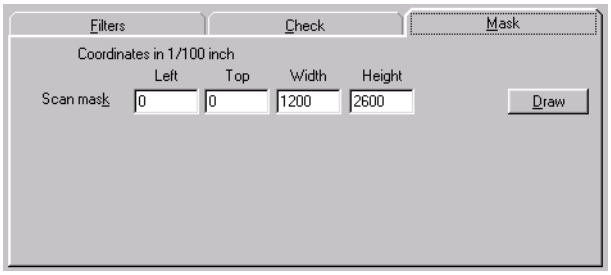
Disabling the Check First Page option is useful when you scan envelopes containing small transaction documents. Often the envelope is also scanned as a header sheet and because of its larger size you do not want to check the envelope's size (the first page of a document) to prevent false warnings.

NOTE: Length Check currently is not supported for color scanning with the Color Scanner 3590C and Color Scanner 4500. Length Check only works for black-and-white scanning.

Auto delete images—allows you to discard images below or above a byte threshold during scanning. This is useful for automatically removing blank rear sides. The Auto-delete check is performed after any auto-cropping, deskew, splitting, merging, or color image binarization that may take place.

NOTE: When auto-deletion of images is enabled at the same time as binarization of color images, the binarized image size is compared with the byte threshold. Both the binarized and the color "parent" images will be deleted when the binarized image size falls below/above the byte threshold.

Mask tab



Mask coordinates define the area to be scanned. Values are expressed in hundredths of an inch. By default, all predefined image setups contain the maximum scan mask for the attached scanner. The maximum scan mask is ideal for Capture Software's auto-crop function.

To define a maximum scan mask:

1. Type 0 in **Left** field.

   For both the front and rear images for the Scanner 2500, the recommended value is 24.

   For the rear image setup for the Scanner 1500 (rotary scanner only), the recommended value is 16.

2. Type 0 in **Top** field.

3. Specify the scanner's maximum width in the **Width** field.

   Scanner 1500 and Scanner 2500 Width value: up to 11.7 in. (coordinate value: 1168).

   For all other Kodak scanners, the maximum width value is 12 in. (coordinate value: 1200).

   NOTE: The Left and Width fields cannot exceed the scanner's maximum width.

4. Specify the scanner's maximum height in the **Height** field.

   Scanner 1500 and Scanner 2500 Height value: up to 17 in. (coordinate value: 1700).

   Scanner 3500, Scanner 3510, and Color Scanner 3590C Height value: up to 26 in. (coordinate value: 2600).

   Scanner 5500 and Scanner 7500 Height value: up to 20 in. (coordinate value: 2000).

   Scanner 5500 and Scanner 7500 Height value with the Document Image Manager: up to 30 in. (coordinate value: 3000).

   Scanner 9500 Height value: up to 30 in. (coordinate value: 3000).

NOTE: When scanning in duplex mode on a Scanner 1500 and Scanner 2500, the Width and Height mask coordinates for the front and rear Image Setup must be the same.

Draw mask—opens a scan window. Scan one page and draw a mask on the image and click OK. Capture Software automatically calculates the mask parameters and enters the value in the Left, Top, Width, and Height fields. Depending on whether you are setting up the front or rear image, Capture Software displays the image coming from the front or rear scanner.

To draw a mask:

1. Click on the **Draw** button in the Mask tab.

   The Image Mask window appears.

2. Select **Scan** to show the image in which to apply the mask.

3. Using the mouse pointer, draw a rectangle over the area where you want the mask to be applied.

4. Click **OK**.

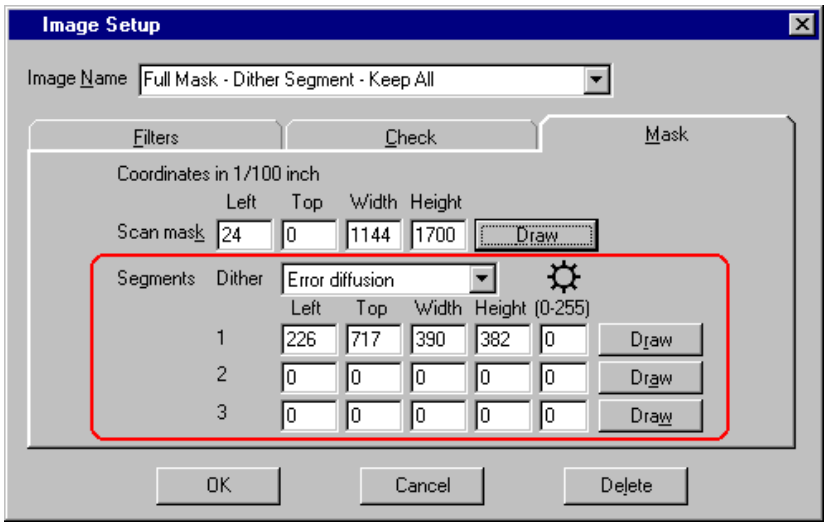
NOTES: When drawing a mask in the Mask tab to define the Scan area for a Series 3000/4000 mid-volume scanner, it is highly recommended that you set the Overscan parameter in the Filters tab to “0.”

The Draw mask function also works when you scan with the Scanner 1500 flatbed. To ensure that each page scanned is accurately captured using the defined scan window, place the sample document face down in the upper left corner of the flatbed platen when defining the scan window.

When capturing the same portion of the front and rear sides of a scanned page from the Scanner 1500, the front and rear scan window must have different mask coordinates. This is due to the left justification of the document feeder. Therefore, it is highly recommended that you use the Draw mask function (for both the front and rear image setups) when defining the front and rear scan windows.

Additional Mask settings for the Scanner 1500 and Scanner 2500

You may define up to three additional scan windows for the Scanner 1500 and Scanner 2500 on which to apply different threshold and dithering parameters.



This capability, called Image Segmentation, can be useful for documents that combine text and photographs. These scan windows for segments do not affect the area to be scanned; they only affect the image processing performed by the scanner for the segment.

Enter the Dither pattern. The Dither pattern will be the same for all defined segments. For each segment, do the following:

1. Type the mask coordinates for the segment.
   or
   Click on the **Draw** button to scan a sample image and have Capture Software automatically calculate the mask coordinates from the drawn mask.

2. Enter the Threshold or Brightness setting. Valid values are 0-255. When the threshold value is 0, the Threshold setting for the main scan window as defined in the Filters tab is used for the segment.

NOTES: To delete a defined segment, enter “0” for all mask coordinates.

Image Segmentation is not possible when Automatic Dithering or Automatic Threshold is selected in the Filters tab.

Image Segmentation cannot be performed when you are using Low Volume Capture Software *Lite*.

Using Image Setup with the i800 Series Scanners

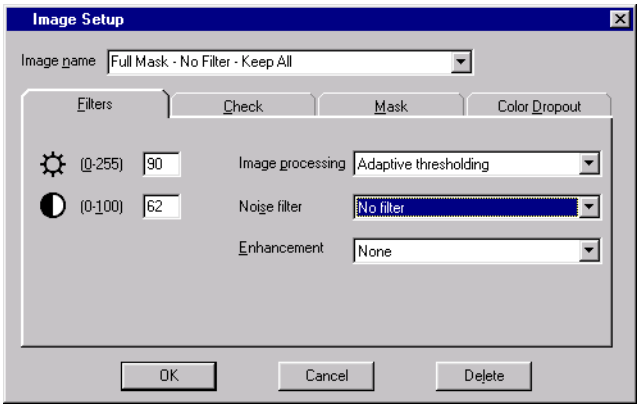
Image Setup for i800 Series Scanners provides four tabs: Filters, Check, Mask, and Color Dropout. Following are descriptions of these tabs.

NOTE: The **Delete** button on the Image Setup dialog box allows you to delete an image setup and remove it from the list of available image setups.

i800 Series Scanners Filters tab

The Filters tab is different for bitonal and color image setup.

Filters tab for bitonal image setup



Threshold—threshold controls the lightness and darkness of the background in an image. As the threshold value increases, more of the darker grays in the image turn black. As the threshold value decreases, fewer darker grays turn black. Enter a value between 0 and 255. The default is “90.”

Contrast—contrast enhances the edges contained in a document. Increasing the contrast level sharpens the image edges. Decreasing the contrast level softens the image. Enter a value between 0 and 100. The default is “62.”

Image Processing—select from the following options:

Adaptive thresholding—also known as ATP. The Adaptive Threshold Processor separates the foreground information in an image (i.e., text, graphics, lines, etc.) from the background information (i.e., white or non-white paper background).

Adaptive Thresholding works on grayscale scanned images and outputs a bitonal electronic image. Its strength lies in its ability to separate the foreground information from the background information even when the background color or shading varies and the foreground information varies in color quality and darkness. Different types of documents may be scanned using the same image processing parameters and results in excellent scanned images. If mixing documents of different colors, paper qualities and textures, and print quality, the Adaptive Thresholding features optimize each image automatically.

When Adaptive Thresholding is selected, all of the other settings in the Filters tab are available for selection. A Contrast value of 100 is considered fully adaptive thresholding.

Fixed Processing—used for black-and-white and other high-contrast documents. A single level is set to determine the black-and-white transition. The threshold is programmable over the entire density range. Fixed thresholding sets contrast to 0 when scanning is initiated. If Fixed Processing is selected, Contrast is not available.

Error Diffusion—screens photographic areas of a document to simulate gray levels yet sharpens the edges of text. It is recommend that error diffusion is used when a mix of text, graphs, pictures, and colors in the documents are being scanned.

Dithering—dithering is a way to simulate gray shades and should be used for scanning photos. It is not recommended for text-only images. Three options are available:

- 64-Level Bayer Dither
- 64-Level 45 Degree Clustered Dot Screen
- 64-Level Dispersed Dot Screen

NOTES: When Error Diffusion or Dithering is selected, all of the other settings in the Filters tab are not available, as they are not applicable to error diffused or dithered images.

In Capture Software, because bitonal images are always scanned with Group 4 compression, Error Diffusion and Dithering will likely cause negative image compression (less than one-to-one). This will result in very large image sizes for bitonal images.

If Error Diffusion or Dithering is only set on one side (Front or Rear) and is combined with a different setting for the other side, a scanner error ("Refeed Document Set") may occur. Error Diffusion and Dithering work best when set for both the Front and Rear bitonal images setups.

When Error Diffusion or Dithering is selected, use caution when selecting **Fine cropping for bi-tonal images**. The fine cropping feature may not work well with error diffused or dithered images, especially from dark background documents.

Noise filter—these options are available to help increase the compression ratio and improve the appearance of document images.

- Majority Rule—determines central pixel data according to the number of white and black pixels.
- No Filter—no enhancement is done to the images.
- Remove Lone Pixels—reduces random noise on bitonal images by converting a black pixel surrounded by white pixels to white and by converting a white pixel surrounded by black pixels to black.

NOTES: Using the noise filter on documents containing very fine detail (e.g., the dot on an "i" in 4-point type) may cause information to be lost. It is recommended that the noise filter not be used when scanning documents with text smaller than 7-point type.

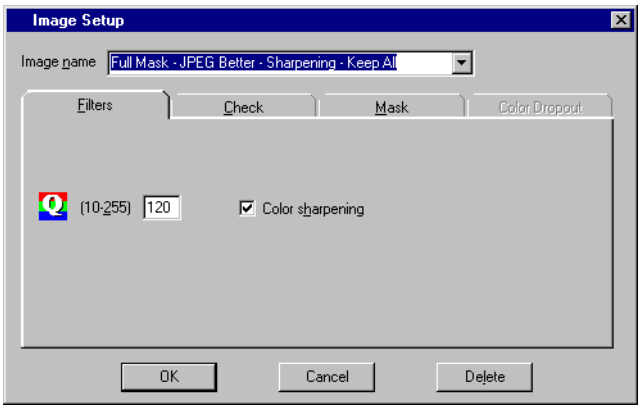
Using the noise filter in conjunction with thresholding will optimize the appearance of document images.

Do not use the noise filter with screening (dithering).

Enhancement—select None or Halftone removal. Halftone removal is used to enhance images. containing dot matrix text and/or images with shaded or color backgrounds using halftone screens. This filter effectively eliminates noise caused by the halftone screens.

Filters tab for color image setup

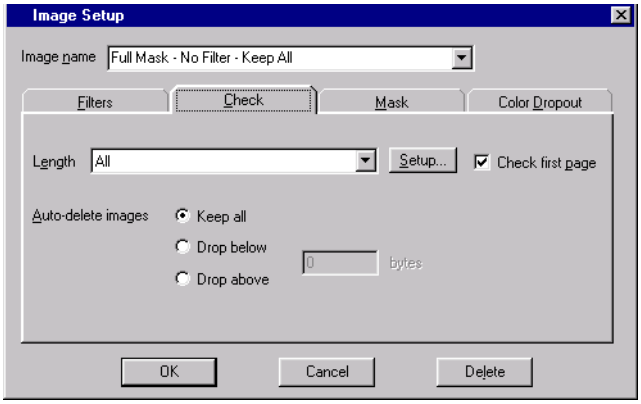
For the i820 Scanner and i840 Scanner, you can specify a different Filters option.



JPEG Quality—JPEG quality controls the amount of file compression performed by the scanner when producing JPEG images. Enter a value between 10 and 255. A higher setting increases image compression (resulting in smaller file sizes), but decreases image quality. A lower setting decreases image compression (resulting in larger file sizes), but improves image quality. The following settings can be used as guidelines.

Image Quality	Setting
Good	200
Better	120
Best	56

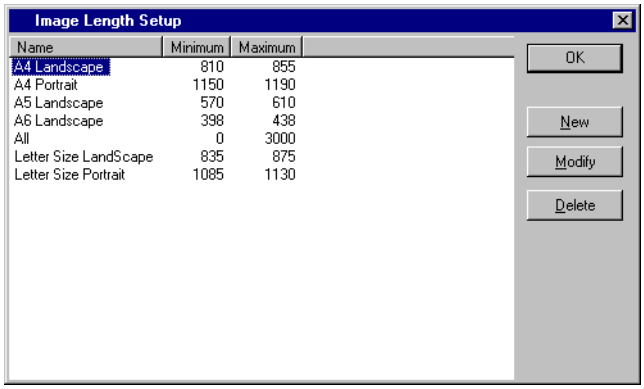
Color Sharpening—enable this check box to configure the scanner to perform color sharpening as part of the scanning process. Color sharpening improves the readability of small text (8-point type or smaller) on color documents. By default, scanner color sharpening is enabled.



Length—select a length type from the drop-down list. Capture Software checks the length of every scanned image and gives a warning (*Image too short* or *Image too long*) when the image length does not comply with the selected length type (i.e., is not between the minimum and maximum length). The length check is useful for detecting document double-feeds. Selecting **All** disables Length Check.

Setup—accesses the Image Length Setup dialog box. From this dialog box you can modify existing Length Check templates, create new ones, or delete Length Check templates.

NOTE: Minimum and maximum values are in 1/100-inch.



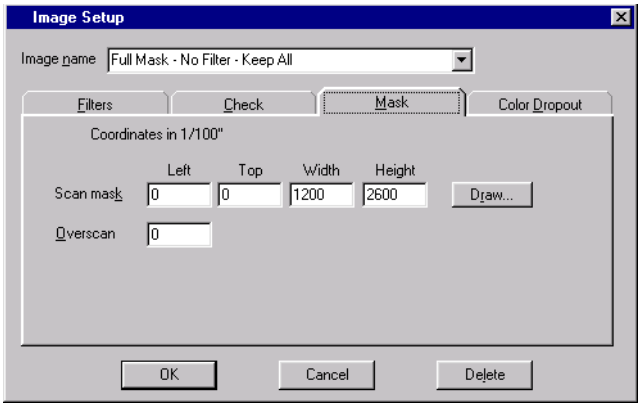
The Length Check is performed after auto-rotation and fine cropping and prior to any splitting or merging that may take place.

Disabling the Check First Page option is useful when you scan envelopes containing small transaction documents. Often the envelope is also scanned as a header sheet and because of its larger size you do not want to check the envelope's size (the first page of a document) to prevent false warnings.

Auto delete images—allows you to discard images below or above a byte threshold during scanning. This is useful for automatically removing blank rear sides. The Auto-delete check is performed after any fine cropping, splitting, or merging that may take place.

NOTES: When dual-stream scanning, it is recommended that you define separate image setups for color and bitonal when auto-deleting images. This is because the byte threshold for blank bitonal images is much different from blank color images.

A byte threshold of up to 200,000 bytes may be specified for blank color images.



Mask coordinates define the area to be scanned. Each image (Front Bi-tonal, Rear Bi-tonal, Front Color, Rear Color) can have its own unique scan area. The Mask tab is only available when the Page Setup is defined for Fixed Cropping (i.e., scanner auto-crop is disabled) or Zone processing. When Fixed Cropping, the mask coordinates are measured relative to the top left corner of the scanner transport. When Zone processing, the mask coordinates are measured relative to the top left corner of the scanned document.

The Scan Mask can either be manually keyed in or defined using the **Draw** function.

To define a Scan Mask manually:

1. Specify the **Left** value.
2. Specify the **Top** value.
3. Specify the **Width** value.

   The maximum width value is 12 inches (coordinate value: 1200).

NOTE: The Left and Width fields combined cannot exceed the scanner's maximum width of 12 inches.

4. Specify the **Height** value.

   The maximum height value is 30 in. (coordinate value: 3000). However, when scanning at 400 dpi bitonal, the maximum height value is 26 in. (coordinate value: 2600).

Draw mask—opens a scan window. Scan one page and draw a mask on the image and click OK. Capture Software automatically calculates the mask parameters and enters the value in the Left, Top, Width, and Height fields. Depending on whether you are setting up the front/rear or bitonal/color images, Capture Software displays the appropriate image coming from the scanner.

To draw a mask:

1. Click on the **Draw** button in the Mask tab.

   The Image Mask window appears.

2. Select **Scan** to show the image in which to apply the mask.
3. Using the mouse pointer, draw a rectangle over the area where you want the mask to be applied.
4. Click **OK**.

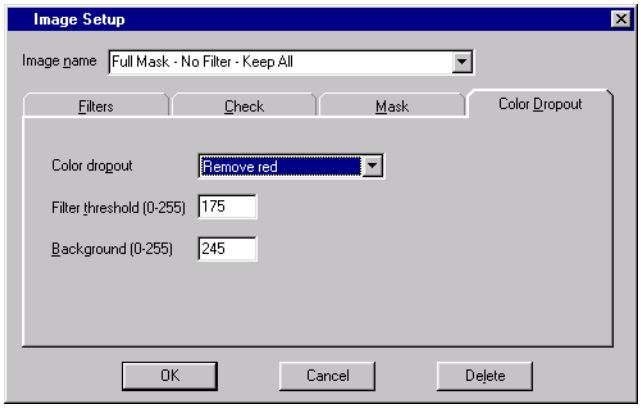
Overscan—allows you to add a specified value (in 1/100 in.) before and after the top and bottom edge of the image. Overscan is used in applications where automatic feeding of highly skewed documents is likely. Overscan reduces the possibility of corner clipping on skewed images.

A value from 0 to 35 may be specified. The default Overscan value is 0. The combined Overscan and Height values cannot exceed 30 inches for all resolutions except 400 dpi bitonal which cannot exceed 26 in.

i800 Series Scanners Color Dropout tab

Electronic Color Dropout is used to eliminate a form's background so that a document management system may automatically (through OCR and ICR technology) read pertinent data without interference from the lines and boxes of the form. The i800 Series Scanners can drop out either red, green, or blue. The Color Dropout tab allows you to select the desired dropout color, and alter the filter threshold and background.

Color Dropout is only available for bitonal image setup.



Color dropout—select the color to be removed. Select None if you do not want any color to be removed.

For example, if your image contains red text or a red background, choose **Remove red** to remove the red text or red background.

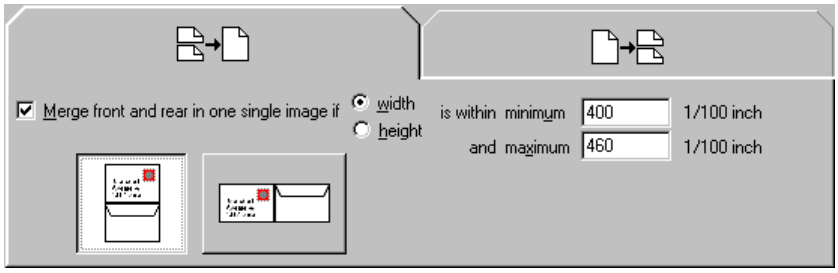
Filter threshold—enter a value between 0 and 255. The default is 175. Filter threshold is the value that is used to identify the color which will be dropped out. This value is applied to the color space.

Background—enter a value between 0 and 255. The default is 245. This value will be substituted in the grayscale (pre-thresholded) image for the color being removed. Therefore, this value should be higher than the threshold value selected on the Filters tab for this pixel to become the background color. For example, if you are scanning a white document with a green form and you have selected a bitonal threshold value of 127. You should pick an electronic color drop-out background value greater than 127 so the substituted pixel will be white in the dropped-out image.

Using the Merge and Split options

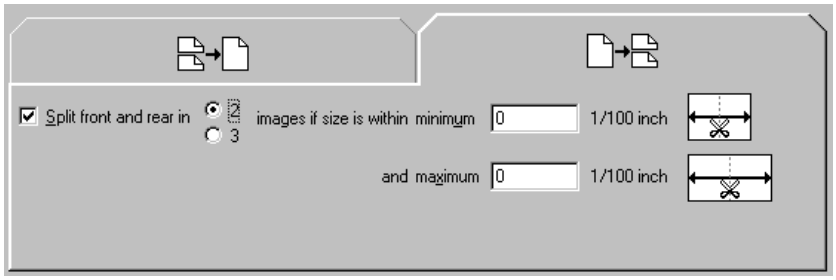
The Page Setup dialog box provides you with the option of merging and splitting images. Following is a description of each option and how to use it for all Kodak scanners.

Merge—combines the front and rear image into one image (for instance front and rear of a check becomes one image). The merge only takes place for images complying with the minimum and maximum width or minimum and maximum height expressed in 1/100-inch. Images that do not comply with the width or height parameters remain untouched. Merge is useful when you need to see the front and rear (i.e., of a check) in one viewer to verify OCR accuracy or perform manual data entry. Merge can be done either vertically (front image on top of rear image) or horizontally (front image and rear image side-by-side).



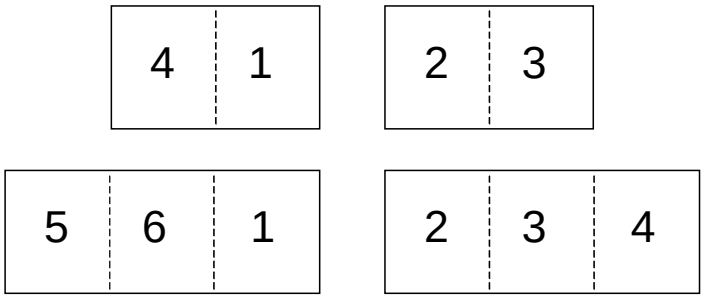
NOTE: Merging front and rear images is not supported when color scanning with the Color Scanner 3590C, Color Scanner 4500, or the i800 Series Scanners (i.e., i820 Scanner and i840 Scanner).

Split—converts the front and rear image in two or three images. The application is related with forms processing where forms are often folded and need to be split in several smaller images to make forms registration and verification more reliable. Capture Software also sorts the split images and extracted data from these images in the correct sequence.



The split occurs only on pages complying with a minimum and maximum size expressed in 1/100-inch. The split operation is a vertical split, meaning that the page is divided into equal left, middle, and right portions (if splitting three ways). The split occurs after rotation, and for large forms that cannot be scanned in landscape mode because they are greater than 12 inches wide, rotation is required.

If you use the Split option, the documents must be folded according to the following folding schemes:



When splitting images, Capture Software always assumes the first image (image 1 in the diagram above) is on the front after scanning. If, during scanning, the first image is on the rear side, be sure to enable the **Swap Front and Rear** option just above the Merge and Split tabs.

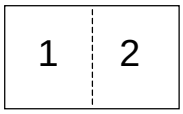
Set the Auto-Rotate option (at the top of the **Page Setup** dialog box) correctly depending on how you scan the document.

After split, images 1, 3, and 5 will be considered front images and images 2, 4, and 6 will be considered rear images.

Because Capture Software immediately shows the result after merging or splitting, you can test your page setup and make changes if necessary.

NOTES: Splitting images is not supported when color scanning with a Color Scanner 3590C, Color Scanner 4500, or the i800 Series Scanners (i.e., i820 Scanner and i840 Scanner).

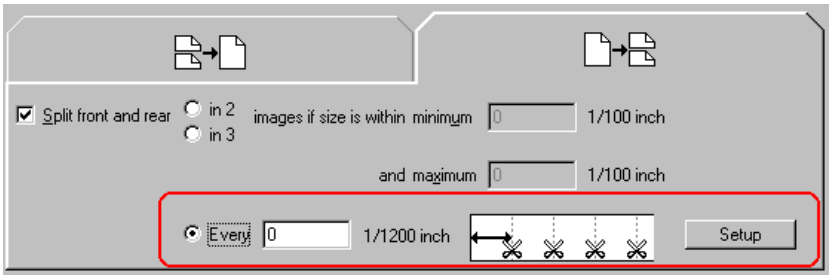
If you are scanning in simplex mode (or when you are scanning from the Scanner 1500 flatbed), the split will occur only on the front image. Only a two-image split is supported with the with the following folding scheme:



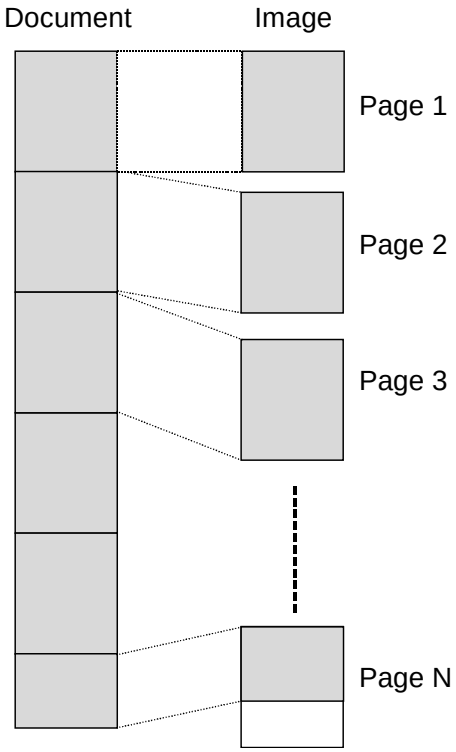
Both image 1 and image 2 will be considered front images.

Additional Split option for the Scanner 2500

For the Scanner 2500, you can specify an additional split option.



This capability, called Continuous Forms Splitting, is suitable for the scanning of long paper on continuous perforated forms. The long document is scanned and then divided into images of the side specified in the Split tab.



The page or image size must be specified in twelve hundredths of an inch. To determine the correct page size, click the **Setup** button and scan a sample page. Capture Software automatically calculates the size according to the length of the scanned page. The maximum image size that can be specified is 17 inches (a value of 20400 as expressed in 1/1200 of an inch)

For example, a continuous form of perforated letter-size documents would result in a size value of 13200.

NOTES: The maximum scannable length of long paper or a continuous form is different based on the amount of additional optional memory installed in the scanner, the image resolution, and the document width as defined in the Mask tab of Image Setup. Please refer to the table on the next page for details.

For example, without installing any additional scanner memory, a letter-size continuous form of up to eight pages can be scanned at 200 dpi. To increase the accuracy of the splitting, it is recommended that you scan using a “pure” Page Setup. A “pure” Page Setup is one where auto-rotate, deskew, and auto-crop are disabled.

When using Continuous Forms Splitting, the transport speed of the scanner 2500 slows down and jam detection does not work. If a jam occurs, the scanner must be manually stopped, either through Capture Software or by opening the scanner feeder.

When using Continuous Forms Splitting, it is recommended that you change the ADF/Manual feed selector to the straight pass setting. This allows the scanned document to exit out the back of the scanner, instead of the top of the scanner.

Continuous Forms Splitting cannot be performed when you are using Low Volume Capture Software *Lite*.

Using the Setup button to scan a sample page is not available in this version of Capture Software.

Scannable length is determined by the amount of memory that is installed in your scanner. Obtain memory locally.

Scanner Memory	dpi	Document Width	Longest Document Size	Comments
8 MB (no additional memory added)	200	Letter	8 letter size pages (11 inches long)	16 images when scanning duplex
72 MB	200	Letter	30 letter size pages (11 inches long)	60 images when scanning duplex
8 MB	100	Letter	35 letter size pages	70 images when scanning duplex
72 MB	100	Letter	60 letter size pages	120 images when scanning duplex

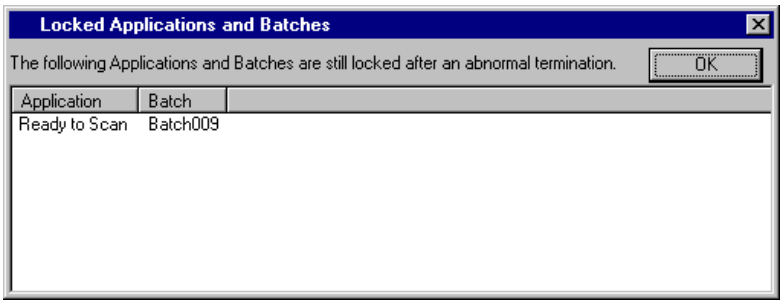
NOTES: A split length of 11 inches (letter length) is assumed. The amount of images received is directly proportional to the split length.

Therefore, if you scan a scroll of airway bills (which are approximately 8.5 by 5.5 inches or half the length of a letter size page), and you set the split length to 5.5 inches, you would receive twice the number of images (120 duplex images when scanning with 72 MB of memory at 200 dpi).

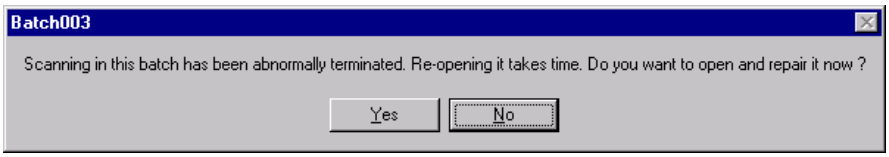
10 Recovery Procedure

If for any reason Capture Software or the scanning PC shuts down or terminates abnormally while scanning a batch, Capture Software will recover and repair the batch at the time Capture Software is restarted and the batch is reopened.

When restarting Capture Software after an abnormal termination, the Locked Applications and Batches dialog box appears with any batches that were open at the time of the abnormal termination.

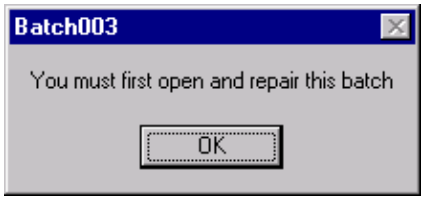


When opening an abnormally terminated batch, the following message appears in Capture Software.


Batch003
Scanning in this batch has been abnormally terminated. Re-opening it takes time. Do you want to open and repair it now ?
Yes
No

- Click **Yes** to repair and open the batch. All pages that were successfully scanned, processed, and displayed by Capture Software should still exist in the batch. Pages that were scanned, but not processed and displayed by Capture Software must be rescanned.

If you do not reopen and repair the affected batch upon restarting Capture Software, Capture Software will allow you to open existing batches, create new batches, and resume scanning within any application including the application that contains the affected batch. However, if you attempt to run Application Setup for the application that contains the affected batch, the following message appears in Capture Software.



Here, Batch003 (as shown in the sample message box) is the batch that needs to be repaired first.

11 System Administration

Program Properties

Any Capture Software user who has Administrator privileges can access the Program Properties dialog box to change any of the following settings:

Multi-user path—allows you to specify a folder/subdirectory on a server to share applications and page templates by several computers with Capture Software installed.

NOTES: Before changing your multi-user path, Capture Software first checks whether the specified subdirectory has already been established as a multi-user path. This is indicated by the existence of an MVCS.LCK file in the subdirectory. If the subdirectory is not a multi-user path, a warning message appears with the option of continuing or canceling the changing of the multi-user path.

Capture Software will not copy or move applications and page templates to the new multi-user path. Any applications or page templates in the old multi-user path still remain. To avoid confusion with your Capture Software installation, it is recommended that you uninstall Capture Software and then re-install it, specifying the new multi-user path at installation time instead of changing the multi-user path in System Administration.

Workstation name and ID—enter a unique workstation name and ID for each computer that has Capture Software installed.

Disk Space warning level—Capture Software will warn you whenever the amount of free hard disk space falls below this warning level. Enter the number of Mbytes for the warning level.

Font size—allows you to choose a font size for the Scanner bar, Document Title bar, Image Title bar, and Status bar.

User profiles—press this button to set up users and user groups. See the section entitled “User profiles” for more information.

Demonstration mode—should always be enabled when you run Capture Software without an attached hardware key. When you use a production CD to upgrade Capture Software from the Demonstration version to production, you must uncheck the box to disable Demonstration mode.

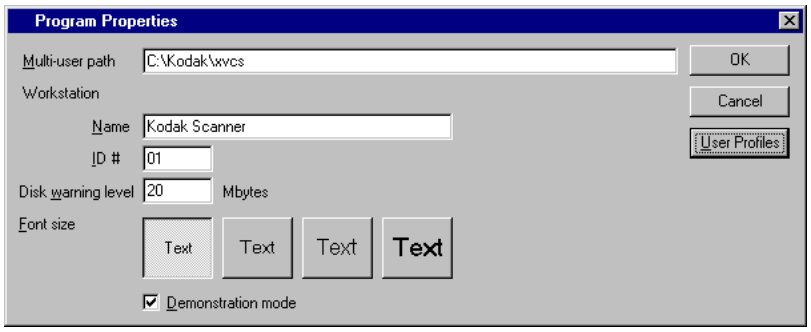
NOTES: Low Volume Capture Software *Lite* does not require a hardware key to run in production. However, features not supported by LVCS *Lite* (e.g., bar code reading, document imprinting, etc.) can be demonstrated by enabling Demonstration mode.

When you change the Demonstration mode setting, Capture Software automatically closes. You must restart Capture Software in order for the setting to take effect.

To access the Program Properties dialog box:

1. From the Capture Software main menu, select **File>Properties**.

   The Program Properties dialog box appears.



NOTES: Program properties can only be accesses by users with Administrator privileges. By default, Capture Software is configured with two users (SysAdmin and xxxxx), both of which have Administrator privileges.

At least one user must have Administrator privileges. Capture Software does not allow User Profiles to be set up without at least one user having Administrator privileges.

2. Set any of the desired values.
3. Click **OK** when finished.

User profiles

Users and user groups can be configured in Capture Software to limit access to specific applications and Capture Software functions (e.g., Application Setup, Crop and Blank tools, etc.).

- Click on the **User Profiles** button to set up users and user groups.

  A list of users appears.

A user must be a member of a group. Groups contain the actual privileges that enable or disable access to Capture Software functions and applications. By default, Capture Software is configured with two users (“SysAdmin” and “xxxxx”) that are members of the **All options enabled** group. This group has privileges for all Capture Software functions and applications.

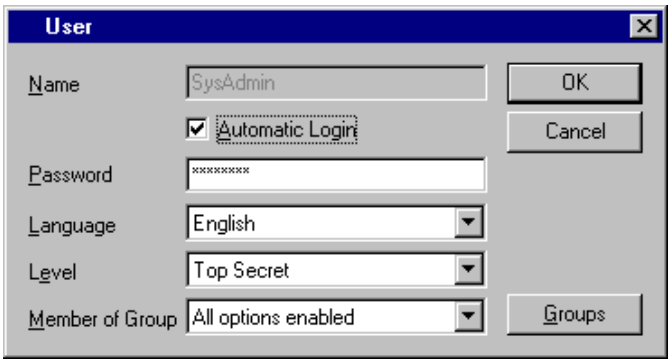
NOTES: The default passwords are “SysAdmin” for SysAdmin and “xxxxx” for xxxxx.

Up to 100 users and user groups can be defined in Capture Software version 3.5.0 or later. For all previous versions, the limit is 30 users and user groups.

To modify a specific user’s profile:

1. Highlight the user name.
2. Click on the **Modify** button.

   The user’s profile appears.



To disable User Profiles, a user can be set up as an **Automatic Login**.

When Automatic Login is checked, no login prompt appears when Capture Software is started. Capture Software automatically logs in as the user who is configured for automatic login. The privileges of the user group in which the user is a member are adopted any time Capture Software is started.

NOTES: By default, Capture Software is configured with SysAdmin as an automatic login.

Only one user can be configured for automatic login.

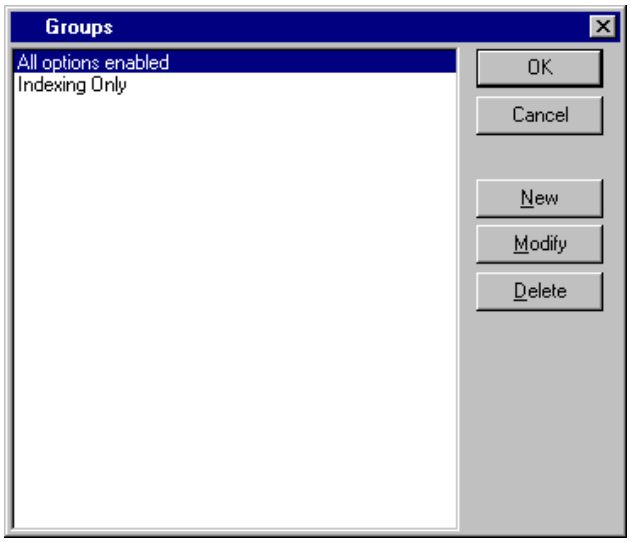
When users are added in User Profiles, the automatic login is automatically disabled. To reinstate the automatic login, an administrator must manually modify a user’s profile.

User groups

To set up a user group:

- Click on the **Groups** button.

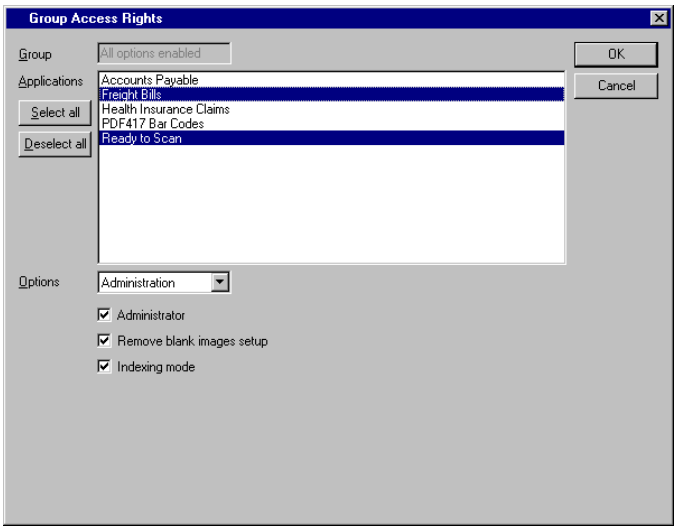
  A list of groups appears.



To modify a group's privileges and application access:

1. Highlight the group name.
2. Click on the **Modify** button.

   The group's profile appears.



Application access

Highlight the application(s) for which you want to grant access. To remove a group's access to a specific application, deselect the application by removing the highlighting.

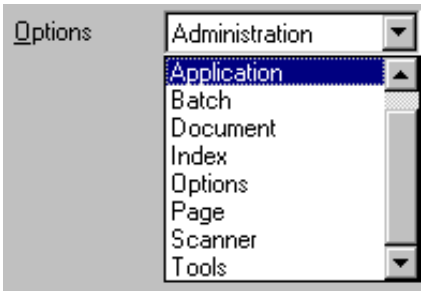
NOTES: Application access can only be provided for production applications. Template application access is provided by the Administrator privilege under Administration options.

When a new application is created, it is automatically accessible by all user groups. To disable access to a new application, you must modify the appropriate user groups.

Click on **Select all** to highlight all applications. Click on **Deselect all** to deselect all applications.

Function privileges

Access to Capture Software is provided through the **Options** drop-down list.



Each option category has a separate set of user privileges to which access can be enabled or disabled. When the check box is checked, the privilege is enabled. When the check box is not checked, the privilege is disabled.

NOTE: At least one Capture Software user must be a member of a group that has the Administrator privilege enabled (in Administration options).

Logging in using network user names

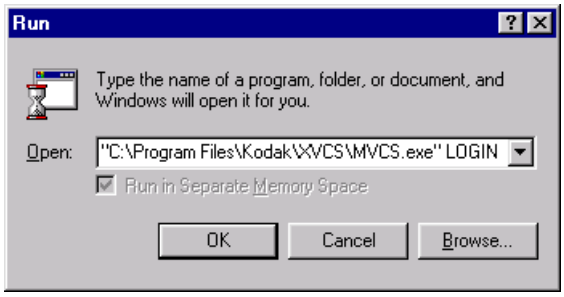
If your PC office environment has a secure network where users are required to log on to their PCs to gain access to network resources and applications, you may want to take advantage of the **Network User Login** feature of Capture Software.

This feature allows the network user to automatically log into Capture Software as their network user name without having to re-enter their network user name from the Capture Software Login screen.

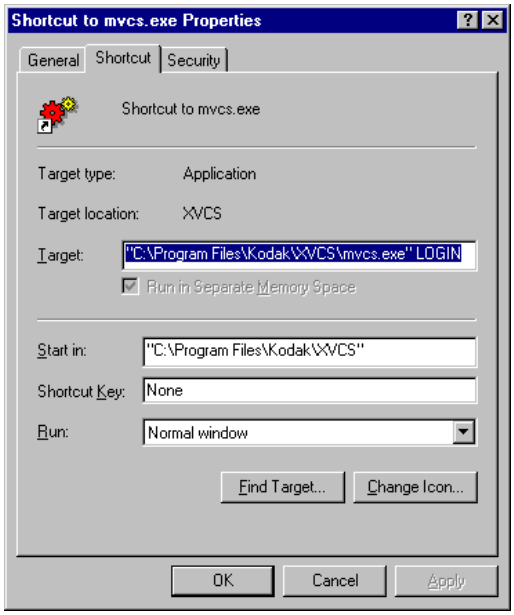
To enable **Network User Login**, you must invoke Capture Software from a command prompt or a short cut definition that has the word **LOGIN** (must be in capital letters) on the command line. The Capture Software executable (**MVCS.EXE**) is located in the Program Files directory where Capture Software is installed. By default, this is **C:\Program Files\Kodak\XVCS**.

For example:

- Invoking Capture Software from the **Run** option of the Windows **Start** menu:



- Shortcut to enable Capture Software **Network User Login**:



When **LOGIN** is on the command line, Capture Software searches the User Profiles list using the network user name. If the network user name exists, the user is automatically logged into Capture Software as that user, inheriting their user group's function and application privileges. The password of the User Profile in Capture Software is ignored and, therefore, can be anything.

IMPORTANT: Each user who will be running Capture Software must have an entry in the Capture Software User Profiles in order to automatically log in as that user.

If the network user name does not exist in the User Profiles list, then the Capture Software Login screen will be displayed requiring the user to log in to Capture Software manually.

To log in as a specific user from the command line, follow the word LOGIN by keying in a specific user name.

For example, if User 17 is the user name, enter:

"C:\Program Files\Kodak\XVCS\MVCS.exe" LOGIN **User17**

Appendix A Installation

This appendix contains step-by-step instructions for installing Capture Software.

Before you begin

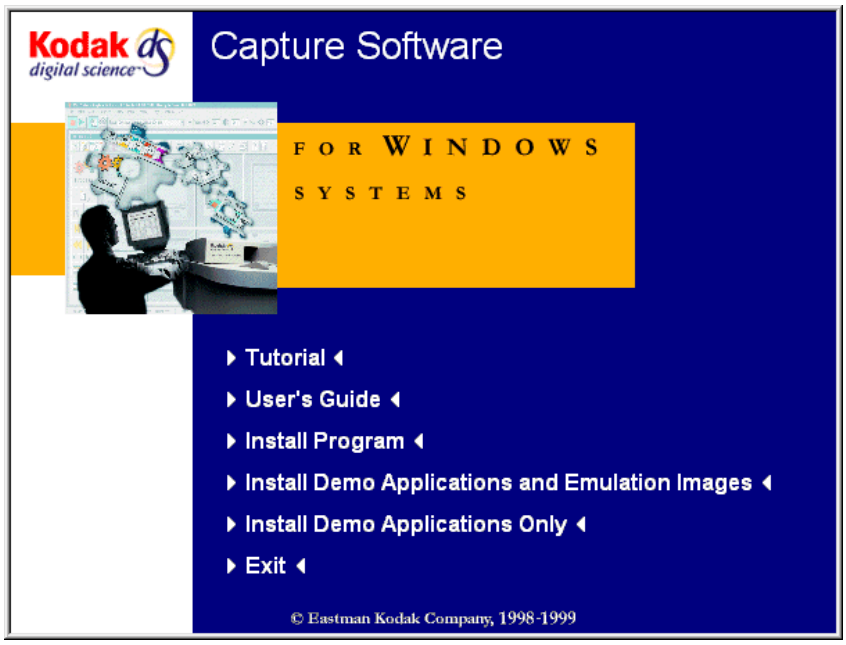
Before installation, verify the proper scanner and SCSI board setup and configuration. For example, this can be done for the Scanner 3500 by running the *Kodak Digital Science* Scanner 3000 Diagnostic application from the DS Scanner 3000 Program Group.

Software installation

To install Capture Software, follow the steps below.

1. Start up Windows.
2. Go to the root directory of the CD-ROM containing the Setup program and double-click on the **Setup** icon.

   The following screen appears.



The Capture Software Setup program allows you to choose one of the following:

Tutorial—this interactive presentation provides an overview of the *Kodak Digital Science* Mid-Volume Capture software including sales information and end-user capabilities. While specific to MVCS, the information in this tutorial is also applicable to all of the other Capture Software products.

The Tutorial requires the following system specifications:

- At least 16 MB of RAM
- A 4X CD-ROM drive
- A video card capable of 256 colors
- A Windows 95 / NT compatible sound card
- A display capable of 800 by 600 resolution

User's Guide—when selecting **User's Guide,** the Capture Software Setup program launches Acrobat Reader and opens up the PDF file for the User's Guide. If Acrobat Reader is not installed on your PC, the Setup program will ask if you want to install Acrobat Reader from the capture Software CD. If **Yes**, the Acrobat Reader will be installed. After installation, you can then go back and select **User's Guide** to view the Capture Software User's Guide.

Install Program—choose **Install Program** to install the *Kodak Digital Science* Capture Software on your system.

Install Demo Applications and Emulation Images—if you do not have an attached scanner, choose this selection to install demo applications and emulation images. This selection sets up Capture Software in emulation mode, which allows you to demonstrate Capture Software without a scanner attached.

NOTE: This option is enabled only on the Capture Software Demo Version CD.

Install Demo Applications Only—if a scanner is attached to your system, you can install the Demo Applications only. This selection installs applications which are already set up and ready to use.

NOTE: This option is enabled only on the Capture Software Demo Version CD.

Exit—when selected, exits the Capture Software Setup program.

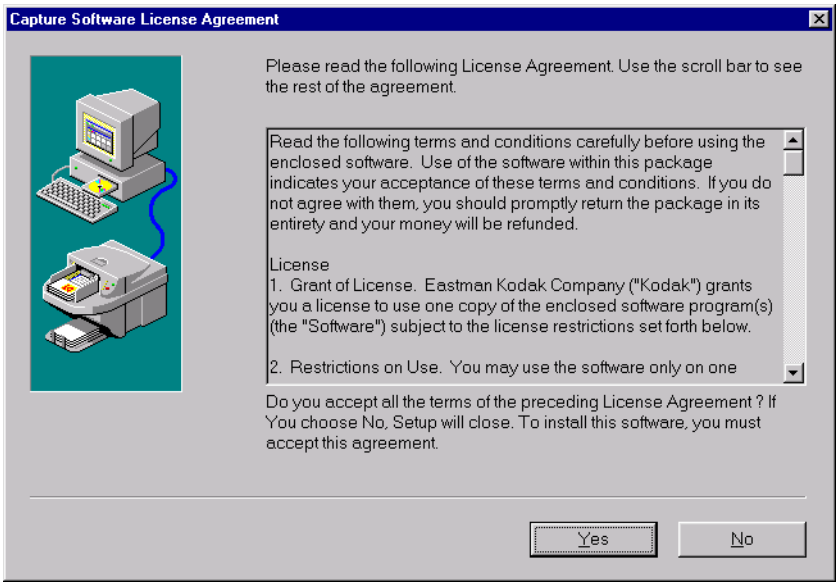
Following are the instructions for each Setup Program selection.

Installing Capture Software

To install the Capture Software, follow the steps below:

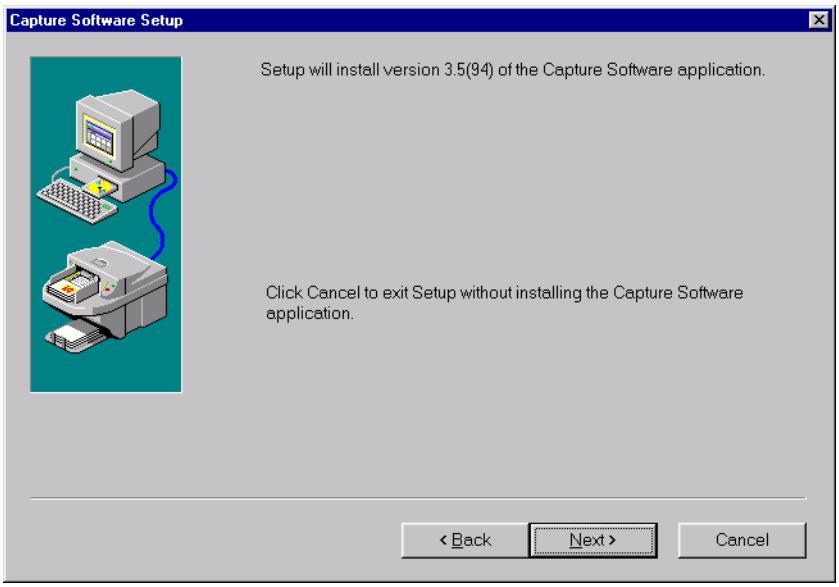
1. Choose **Install Program** on the Capture Software setup program.

   The Capture Software License Agreement appears.


Capture Software License Agreement
Please read the following License Agreement. Use the scroll bar to see the rest of the agreement.
Read the following terms and conditions carefully before using the enclosed software. Use of the software within this package indicates your acceptance of these terms and conditions. If you do not agree with them, you should promptly return the package in its entirety and your money will be refunded.
License
1. Grant of License. Eastman Kodak Company ("Kodak") grants you a license to use one copy of the enclosed software program(s) (the "Software") subject to the license restrictions set forth below.
2. Restrictions on Use. You may use the software only on one
Do you accept all the terms of the preceding License Agreement ? If You choose No, Setup will close. To install this software, you must accept this agreement.
Yes
No

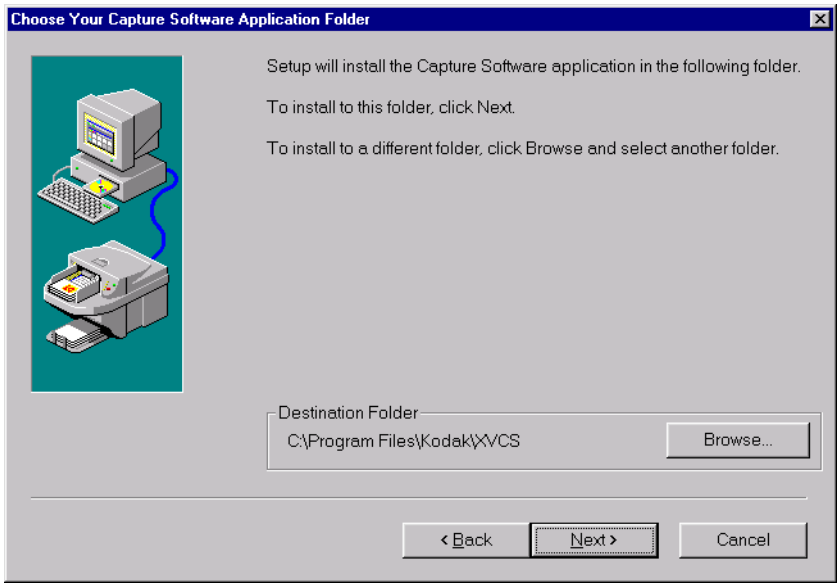
2. Click **Yes**.

   The Capture Software Setup dialog box appears.


Capture Software Setup
Setup will install version 3.5(94) of the Capture Software application.
Click Cancel to exit Setup without installing the Capture Software application.
< Back
Next >
Cancel

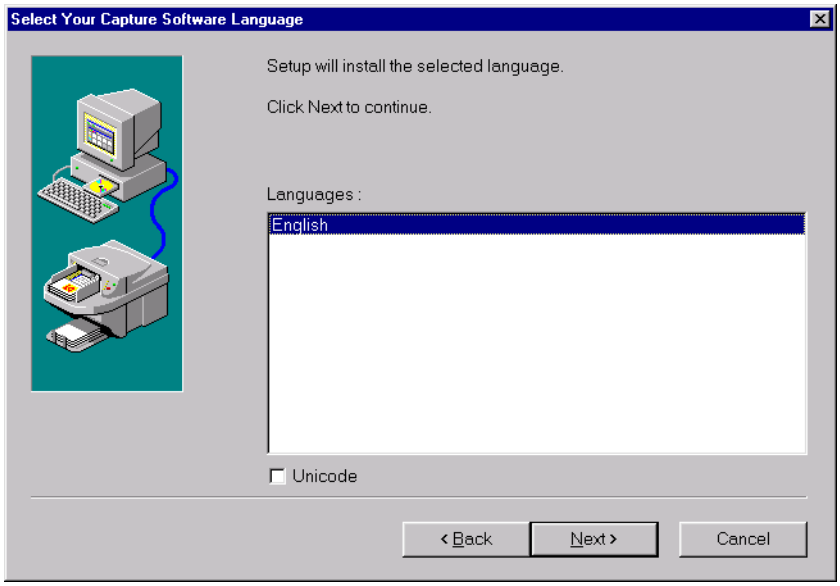
3. Click **Next**.

The Choose Your Capture Software Application Folder dialog box appears.


Choose Your Capture Software Application Folder
Setup will install the Capture Software application in the following folder.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Kodak\XVCS
Browse...
< Back
Next >
Cancel

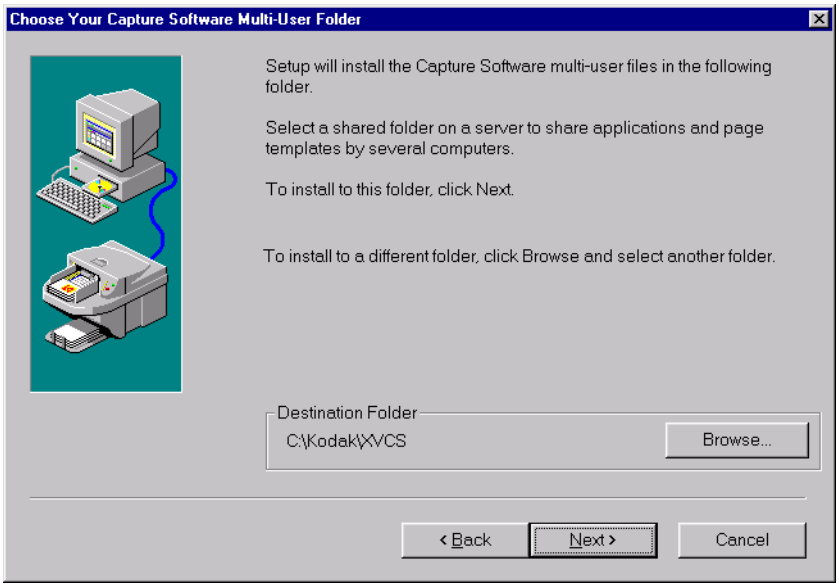
4. Select **Next** to install the program in the destination folder indicated, or select **Browse** to choose a different folder.

   The Select Your Capture Software Language dialog box appears.



5. Choose the desired language(s) from the Languages list box.
6. Select **Next**.

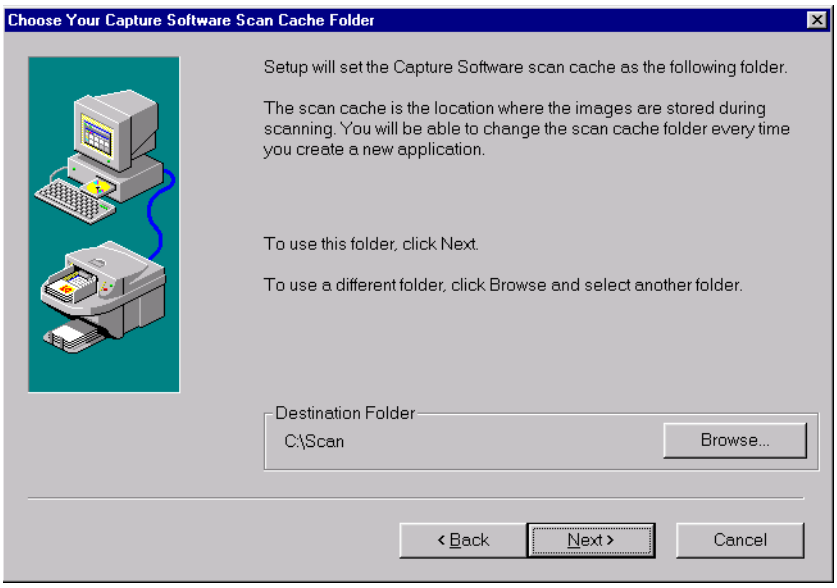
The Choose Your Capture Software Multi-User Folder dialog box appears.


Choose Your Capture Software Multi-User Folder
Setup will install the Capture Software multi-user files in the following folder.
Select a shared folder on a server to share applications and page templates by several computers.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Kodak\XVCS
Browse...
< Back
Next >
Cancel

7. Select **Next** to set the Capture Software shared folder to the destination folder indicated, or select **Browse** to choose a different folder.

IMPORTANT: Capture Software uses long file names for application and page template names. As a result, the multi-user folder must be on a server or hard disk partition that supports long file names. The installation will fail when using a partition that only supports 8.3 file names (e.g., a Novell FAT partition).

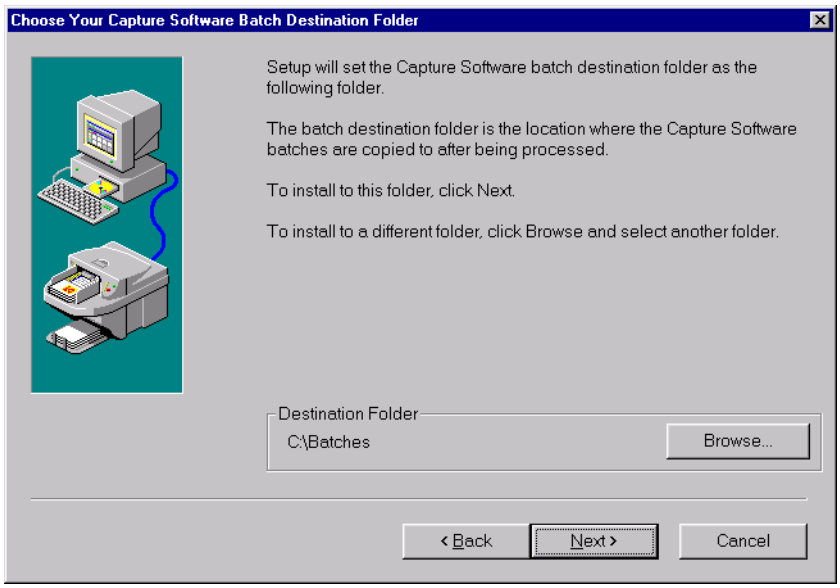
The Choose Your Capture Software Scan Cache Folder dialog box appears.


Choose Your Capture Software Scan Cache Folder
Setup will set the Capture Software scan cache as the following folder.
The scan cache is the location where the images are stored during scanning. You will be able to change the scan cache folder every time you create a new application.
To use this folder, click Next.
To use a different folder, click Browse and select another folder.
Destination Folder
C:\Scan
Browse...
< Back
Next >
Cancel

8. Select **Next** to set the default folder location where images are stored during scanning in the destination folder indicated, or select **Browse** to choose a different folder.

IMPORTANT: When installing in a Capture Software environment where applications and batches must be shared by more than one workstation, it is critical that the Scan Cache folder on each workstation is defined exactly the same. It is recommended that you use UNC syntax (e.g., \\server\cache) whenever possible.

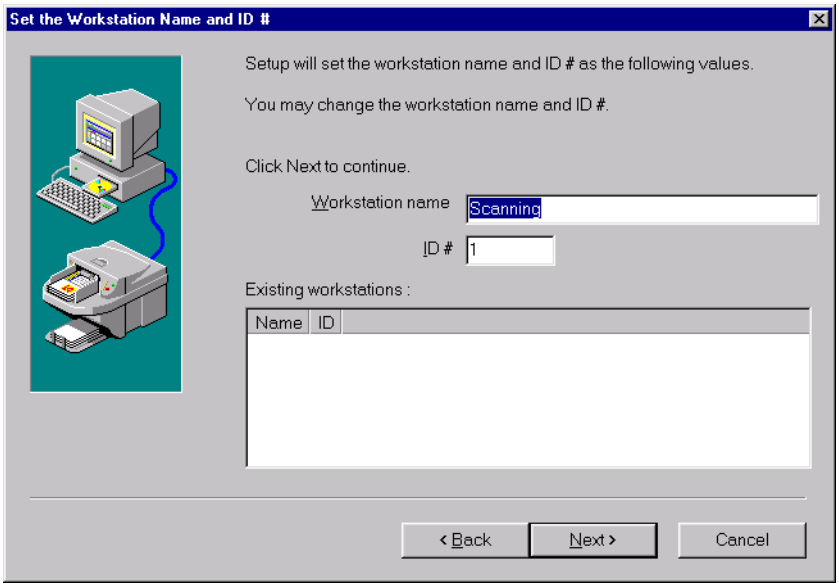
The Choose Your Capture Software Batch Destination Folder dialog box appears.


Choose Your Capture Software Batch Destination Folder
Setup will set the Capture Software batch destination folder as the following folder.
The batch destination folder is the location where the Capture Software batches are copied to after being processed.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Batches
Browse...
< Back
Next >
Cancel

9. Select **Next** to define the batch destination folder where the Capture Software batches are transferred to after processing in the destination folder indicated, or select **Browse** to choose a different folder.

IMPORTANT: When installing in a multiple scanner environment where processed batches must all be transferred to the same physical destination folder, it is critical that the Batch Destination folder on each Capture Software workstation is defined exactly the same. You should use UNC syntax (e.g., \\server\batches) whenever possible.

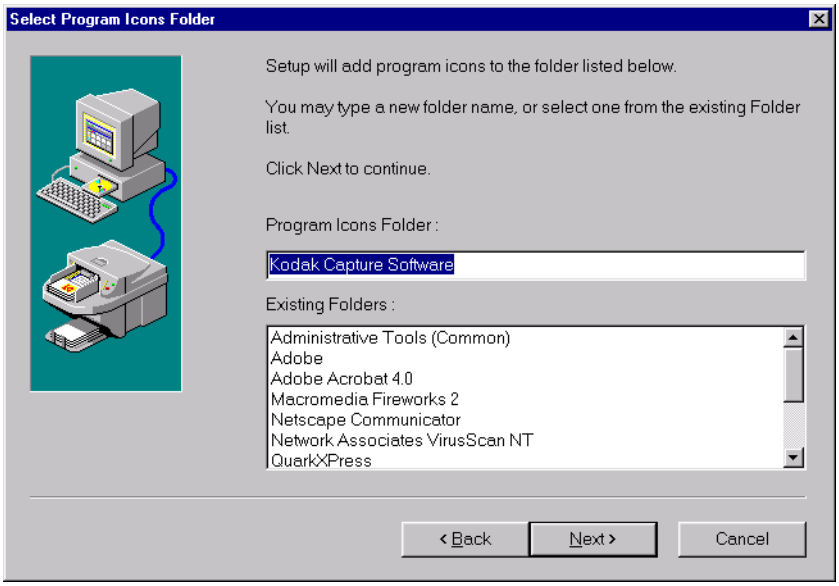
The Set the Workstation Name and ID # dialog box appears.



10. Select **Next** to set up the workstation and ID number as shown. If desired, you can change the workstation name and/or ID number.

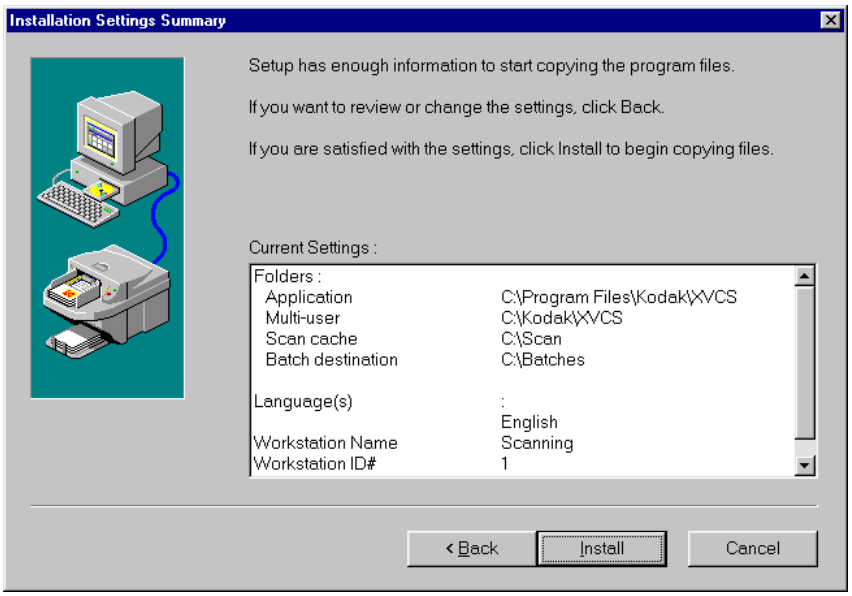
NOTE: The workstation name and ID number must be unique when installing Capture Software on multiple workstations that will use the same multi-user path (i.e., shared applications and page templates).

The Select Program Icons Folder dialog box appears.


Select Program Icons Folder
Setup will add program icons to the folder listed below.
You may type a new folder name, or select one from the existing Folder list.
Click Next to continue.
Program Icons Folder :
Kodak Capture Software
Existing Folders :
Administrative Tools (Common)
Adobe
Adobe Acrobat 4.0
Macromedia Fireworks 2
Netscape Communicator
Network Associates VirusScan NT
QuarkXPress
< Back
Next >
Cancel

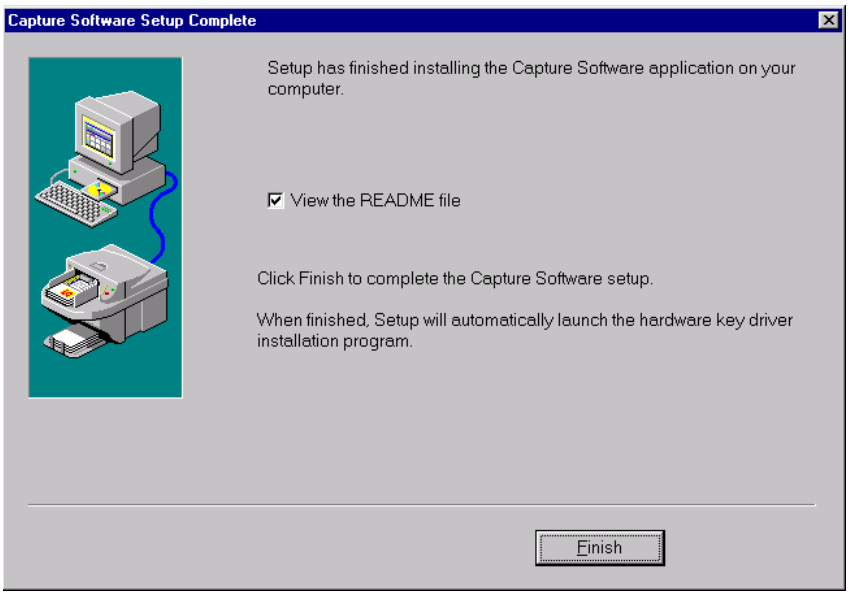
11. Choose one of the Program folders in the list or type a new folder name.
12. Select **Next** to continue.

The Installation Settings Summary dialog box appears.



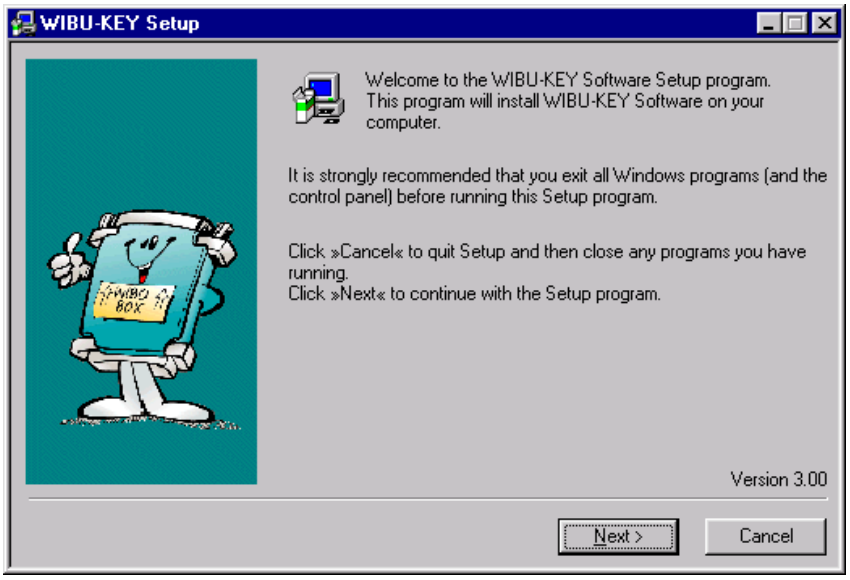
13. Select **Install** to complete the Capture Software installation program.

    The files are installed and the Capture Software Program icon is created. The Capture Software Setup Complete dialog box appears.


Capture Software Setup Complete
Setup has finished installing the Capture Software application on your computer.
View the README file
Click Finish to complete the Capture Software setup.
When finished, Setup will automatically launch the hardware key driver installation program.
Finish

14. Check the box to view the README file.
15. Select **Finish** to complete the Capture Software installation.

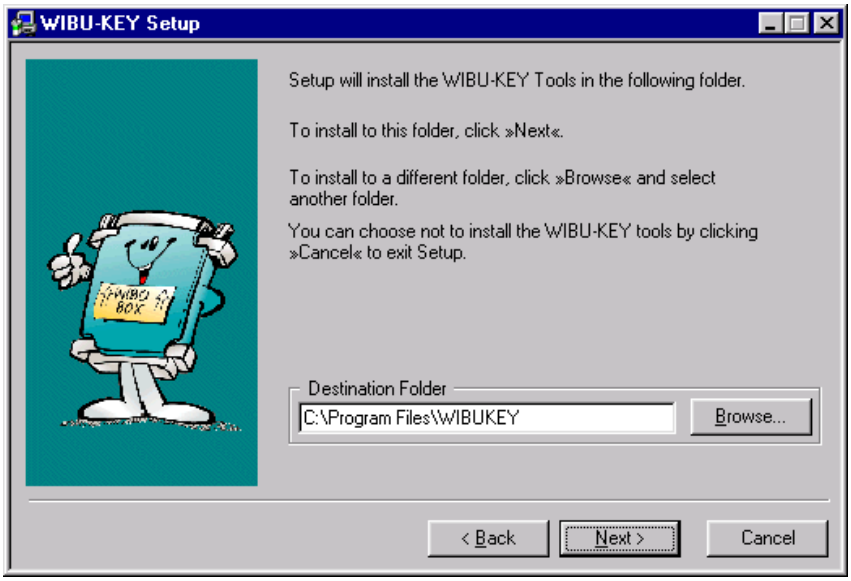
When the installation has finished, Capture Software Setup automatically launches the hardware key driver program.


WIBU-KEY Setup
Welcome to the WIBU-KEY Software Setup program.
This program will install WIBU-KEY Software on your computer.
It is strongly recommended that you exit all Windows programs (and the control panel) before running this Setup program.
Click »Cancel« to quit Setup and then close any programs you have running.
Click »Next« to continue with the Setup program.
Version 3.00
Next >
Cancel

To install the WIBU-KEY Software Setup program, it is suggested that you exit all Windows programs (and the control panel).

16. Select **Next** to continue.

    The WIBU-KEY Setup window appears.

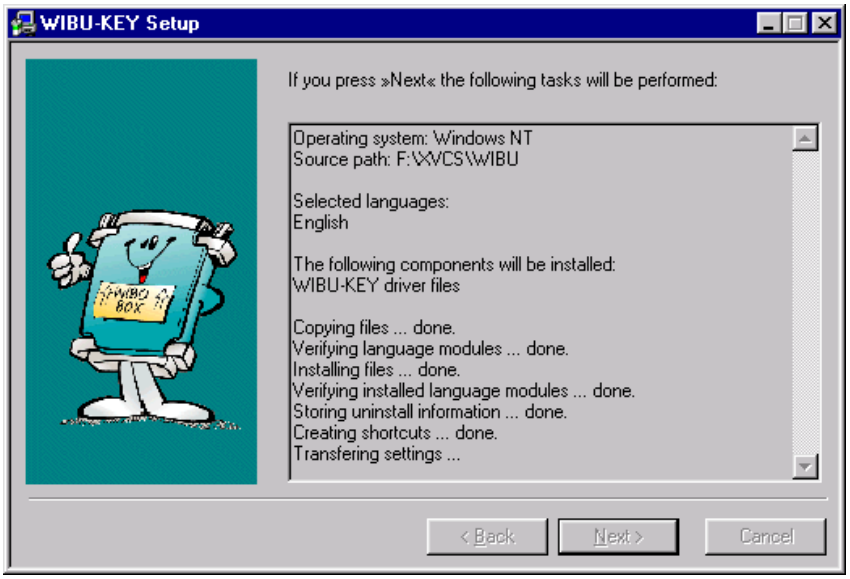

WIBU-KEY Setup
Setup will install the WIBU-KEY Tools in the following folder.
To install to this folder, click »Next«.
To install to a different folder, click »Browse« and select another folder.
You can choose not to install the WIBU-KEY tools by clicking »Cancel« to exit Setup.
Destination Folder
C:\Program Files\WIBUKEY
Browse...
< Back
Next >
Cancel

17. Select **Next** to continue.

The following window appears.

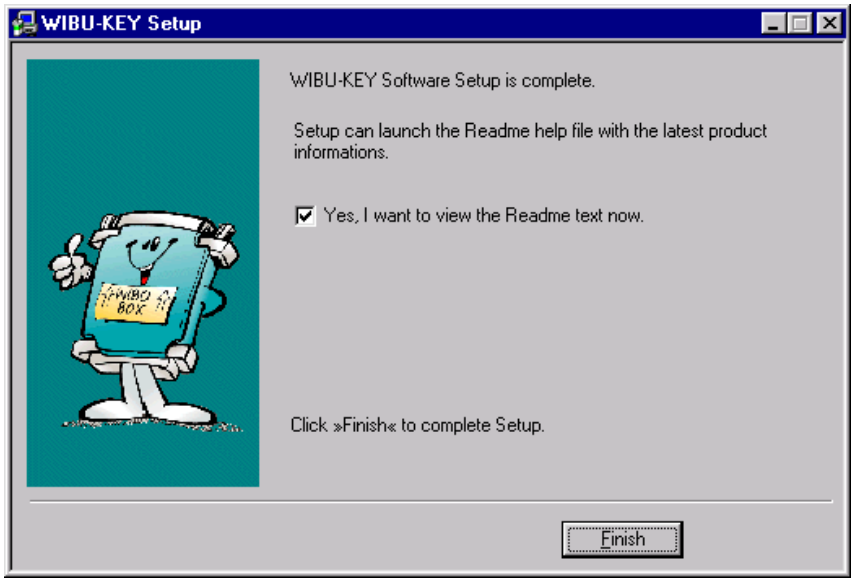
18. Select **Next** to install the files listed on the WIBU-KEY Setup window.

    When the files are installed, the following window appears.



19. Select **Next**.

The following window appears.


WIBU-KEY Setup
WIBU-KEY Software Setup is complete.
Setup can launch the Readme help file with the latest product informations.
Yes, I want to view the Readme text now.
Click »Finish« to complete Setup.
Finish

20. Select **Finish** to complete the WIBU-KEY setup.

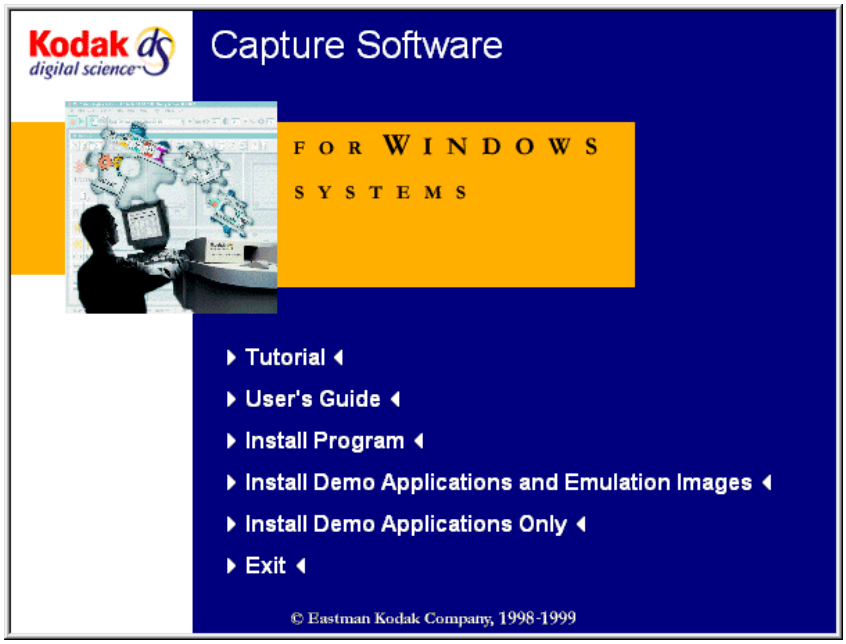
NOTES: On Windows 98/ME systems, if WIBU version 3.00 is being installed for the first time, you must reboot your PC after the installation of Capture Software and WIBU are complete. Reboot your PC before running the Capture Software program.

WIBU version 3.00 Help requires an up-to-date version of Microsoft Internet Explorer. If you get an error message indicating an out-of-date HHCTRL.OCX file, you must upgrade Internet Explorer (to at least version 4.73.8252) before you can access WIBU Help.

Installing Demo Applications and Emulation Images

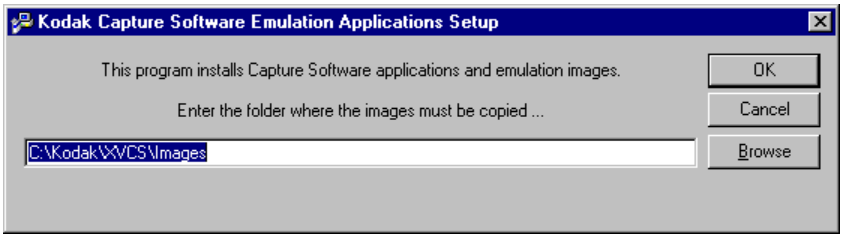
In addition to using Capture Software with a Kodak scanner, you can also run Capture Software in emulation mode without an attached scanner. To install demo applications and emulation images and run Capture Software in emulation mode, proceed as follows.

From the Capture Software Setup Program:



1. Choose **Install Demo Applications and Emulation Images**.

   The following window appears.


Kodak Capture Software Emulation Applications Setup
This program installs Capture Software applications and emulation images.
Enter the folder where the images must be copied ...
C:\Kodak\KVCS\Images
OK
Cancel
Browse

2. Click **OK** if you want the new Capture Software applications and emulation images to be copied in the displayed folder, or select **Browse** to choose a different folder.

   When the files are installed, the message *Installation Successful! Capture Software is switched to emulation mode* appears.

3. Click **OK** to dismiss the message box.

To use one of the demo applications, open a batch and click on the **Start** button in Capture Software to feed images. Click on **Stop** to stop feeding. When the feeder stops automatically, it could be that you have another range of images. Click **Start** again for more images. Each demo application has an associated README file that you can access by choosing **About** from the Capture Software Open Application window. The README text indicates the number of images and number of image groups for each application. When you want to start feeding images from the first image on, select **Reset Emulation Feeder** from the Page menu or press **CTRL+R**.

To disable emulation mode, so you can resume using Capture Software with an attached scanner:

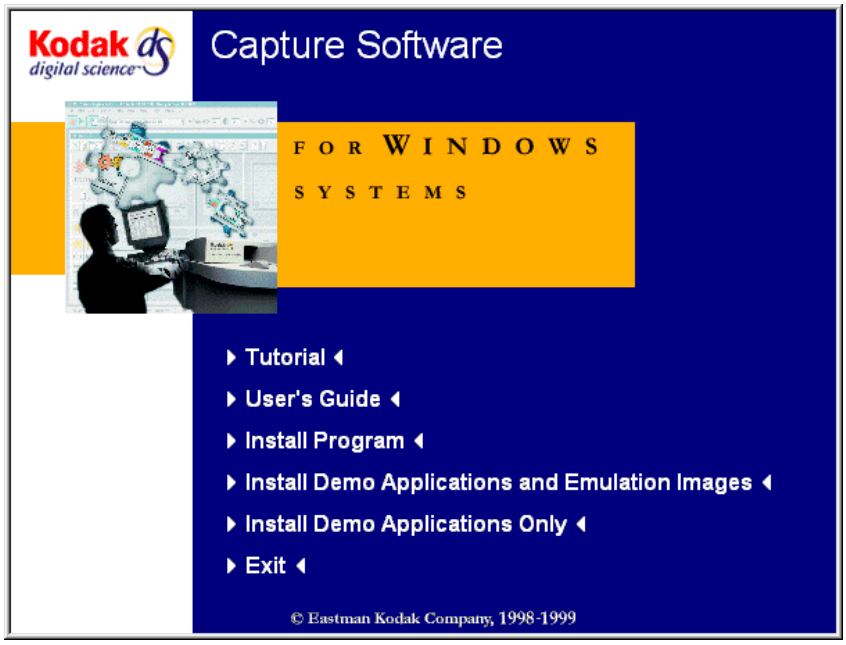
1. Select **Scanner>Setup** from the Capture Software main window.
2. From the Scanner Setup dialog box, uncheck the **Emulation Mode** option.
3. Click **OK** to return to the Capture Software main window.

On the Capture Software Demo Version CD, in the DOCS directory, is a PDF file entitled “Demo Script.” Use this demo script to become familiar with the demo applications and to assist you in using the demo applications when you are learning or demonstrating Capture Software.

Installing Demo Applications only

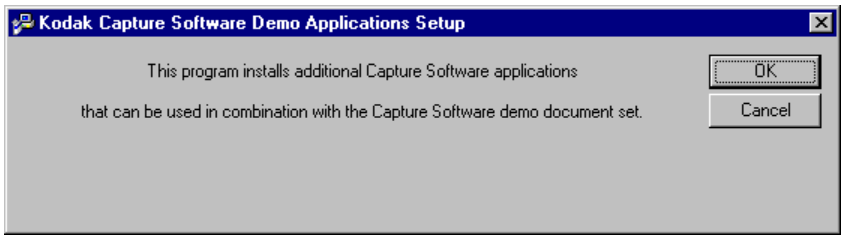
To install the demo applications only, proceed as follows.

From the Capture Software Setup program:



1. Choose **Install Demo Applications Only**.

   The following window appears.


Kodak Capture Software Demo Applications Setup
This program installs additional Capture Software applications
that can be used in combination with the Capture Software demo document set.
OK
Cancel

2. Click **OK** to install the new Capture Software Demo Applications.

   When the files are installed, the message *Installation Successful!* appears.

3. Click **OK** to dismiss the message box.

NOTE: The Demo applications, when run with a Kodak Scanner, have been set up to use the Capture Software Demo Document set (hard copies of the emulation images described in the previous section). To obtain a copy of the Capture Software Demo Document set, do one of the following:

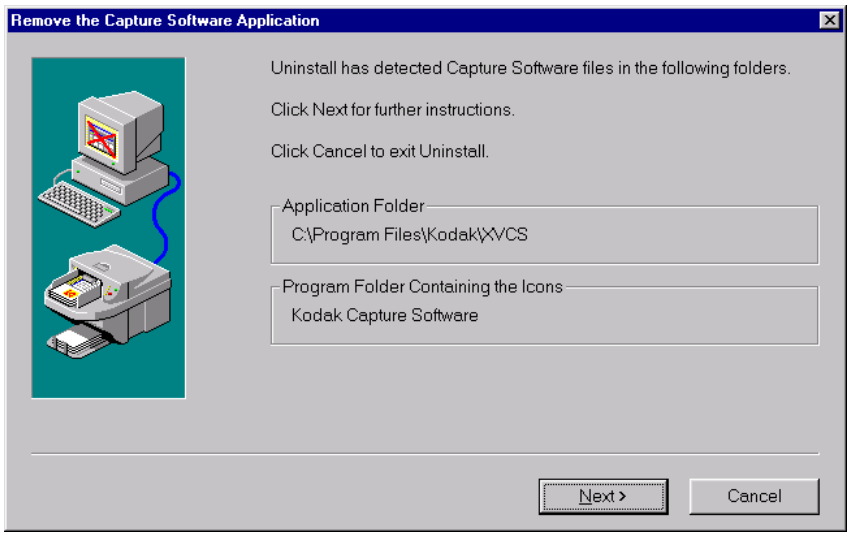
- Contact your local Kodak Representative or Kodak Authorized Image Reseller.
- Contact Kodak Advertising Distribution (1-888-247-1234 in the United States) and ask for A-5536.
- Go to the DOCS\DEMODOCS directory on the Capture Software Demo Version CD and print a copy. The Demo Document set is contained in several PDF files.

Uninstalling Capture Software

To remove Capture Software from your PC, follow the steps below.

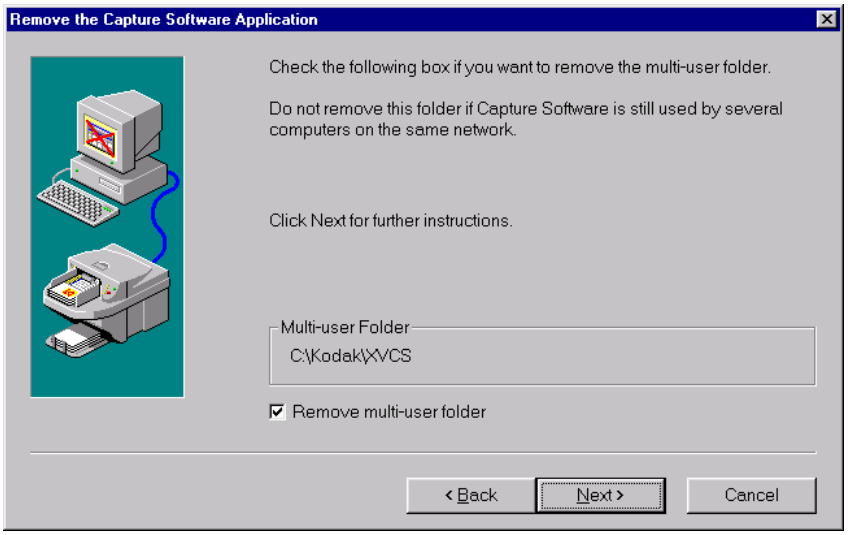
1. From the Start menu, choose **Programs>Kodak Capture Software>Uninstall**.

   The Remove the Capture Software Application dialog box appears.


Remove the Capture Software Application
Uninstall has detected Capture Software files in the following folders.
Click Next for further instructions.
Click Cancel to exit Uninstall.
Application Folder
C:\Program Files\Kodak\XVCS
Program Folder Containing the Icons
Kodak Capture Software
Next >
Cancel

2. Select **Next** to continue with the uninstall procedure.

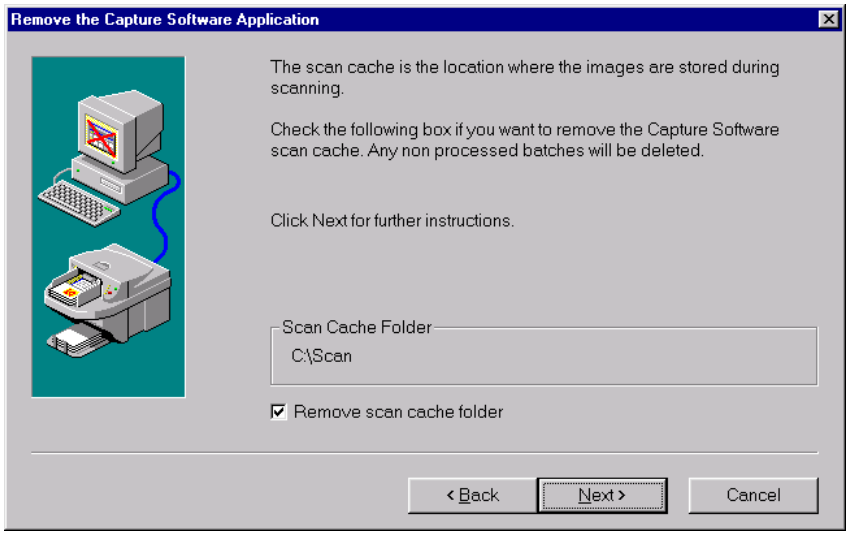
   The following dialog box appears.


Remove the Capture Software Application
Check the following box if you want to remove the multi-user folder.
Do not remove this folder if Capture Software is still used by several computers on the same network.
Click Next for further instructions.
Multi-user Folder
C:\Kodak\XVCS
Remove multi-user folder
< Back
Next >
Cancel

3. If the multi-user folder is not being used by other computers on the same network, and you want to delete it, select **Next**.

   If you want to keep the multi-user folder, uncheck the **Remove multi-user folder** option, and select **Next**.

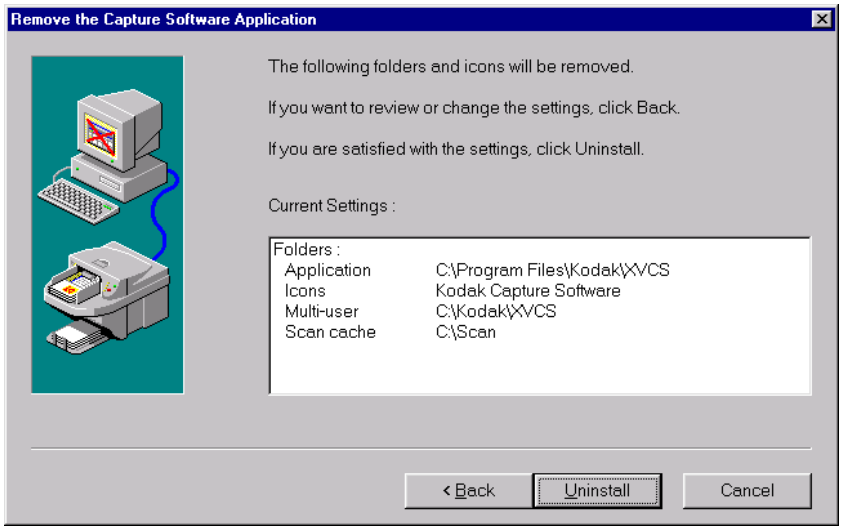
The following dialog box appears.


Remove the Capture Software Application
The scan cache is the location where the images are stored during scanning.
Check the following box if you want to remove the Capture Software scan cache. Any non processed batches will be deleted.
Click Next for further instructions.
Scan Cache Folder
C:\Scan
Remove scan cache folder
< Back
Next >
Cancel

4. If you want to remove the Capture Software scan cache folder, select **Next**. Any non-processed batches are deleted.

   If you do not want to remove the Capture Software scan cache, uncheck the **Remove scan cache folder** option, and select **Next**.

   The following dialog box appears.


Remove the Capture Software Application
The following folders and icons will be removed.
If you want to review or change the settings, click Back.
If you are satisfied with the settings, click Uninstall.
Current Settings :
Folders :
Application C:\Program Files\Kodak\XVCS
Icons Kodak Capture Software
Multi-user C:\Kodak\XVCS
Scan cache C:\Scan
< Back
Uninstall
Cancel

5. Select **Uninstall** to continue to remove the folders and icons listed in the Current Settings list box.

When the uninstall procedure is complete, the following dialog box appears.

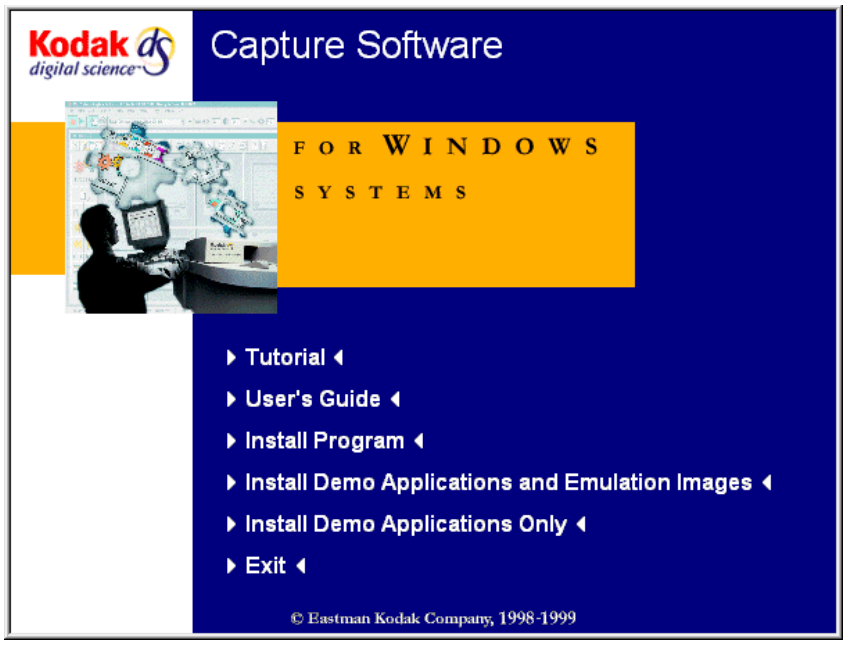
6. Click **OK** to close the dialog box.

Upgrading your Capture Software installation

To upgrade Capture Software, follow the steps below.

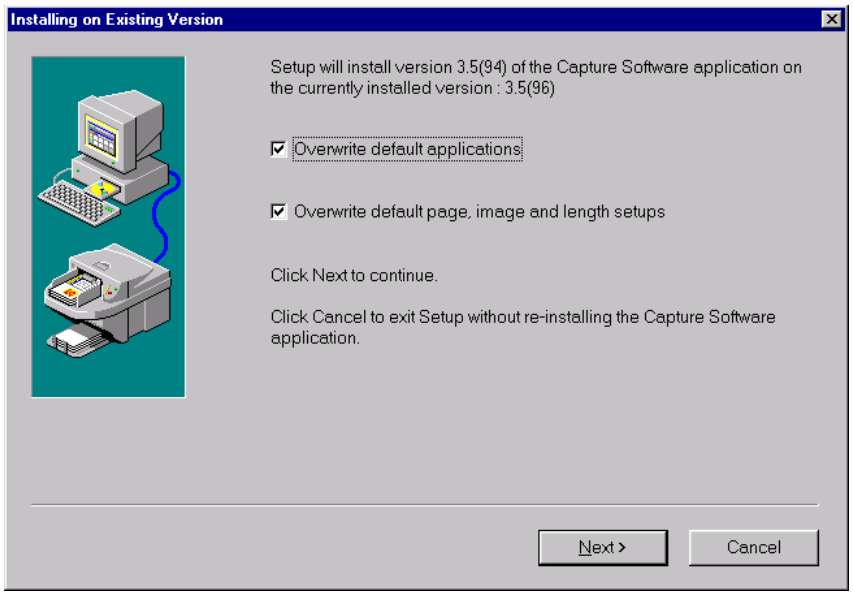
1. Start up Windows.
2. Go to the root directory of the CD-ROM containing the Setup program and double-click on the Setup icon.

   The following screen appears.



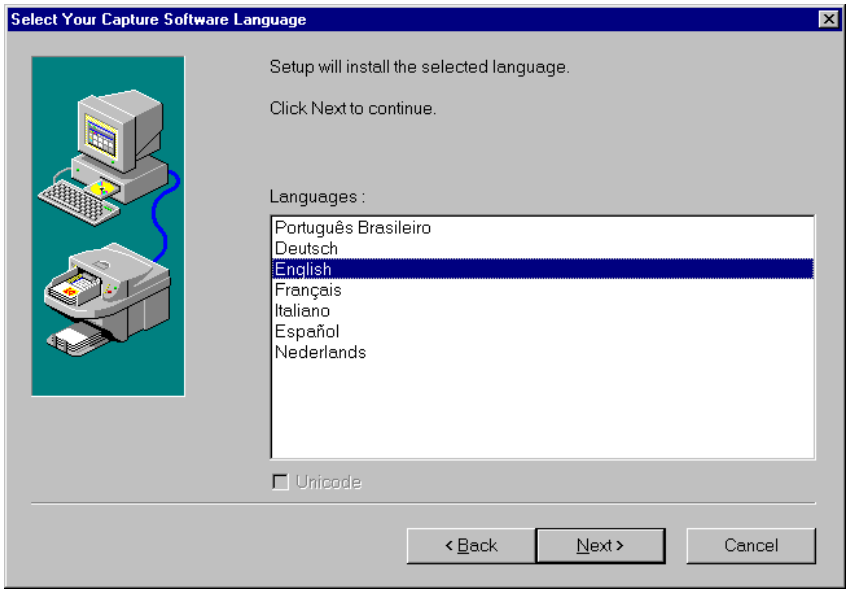
3. Select **Install Program**.

   The Installing on Existing Version window appears.


Installing on Existing Version
Setup will install version 3.5(94) of the Capture Software application on the currently installed version : 3.5(96)
Overwrite default applications
Overwrite default page, image and length setups
Click Next to continue.
Click Cancel to exit Setup without re-installing the Capture Software application.
Next >
Cancel

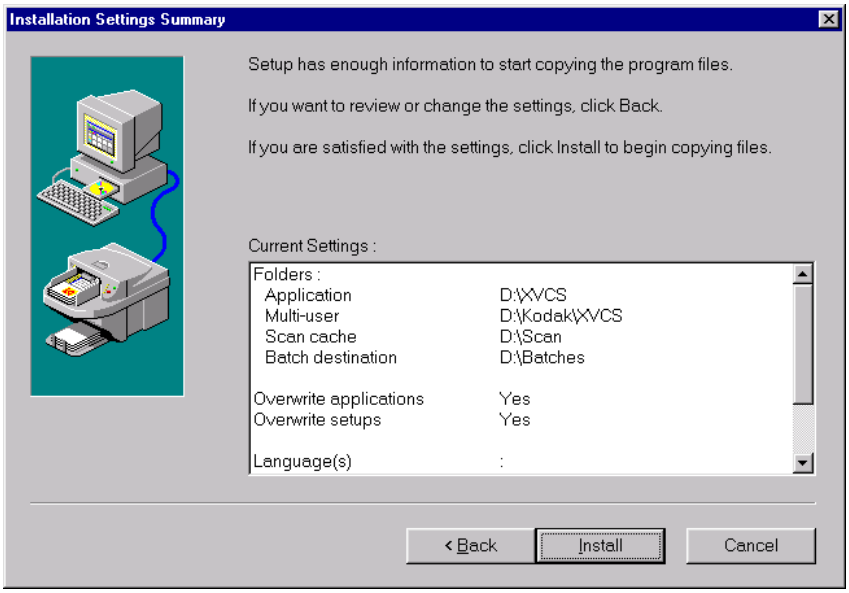
4. Select **Next** to install the most recent version of Capture Software on the currently installed version.

The following window appears.



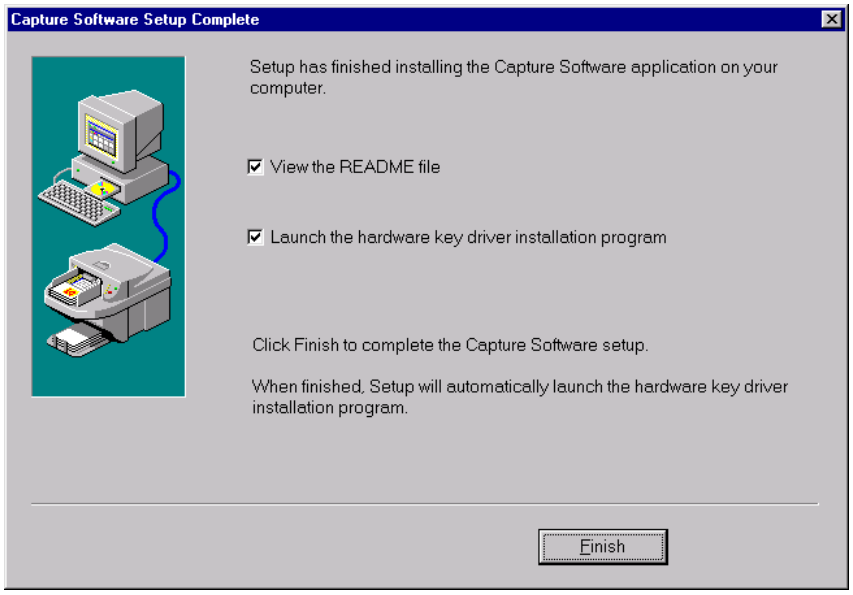
5. Choose the desired language(s) from the Languages list box and select **Next**.

   The Installation Setup Summary dialog box appears.


Installation Settings Summary
Setup has enough information to start copying the program files.
If you want to review or change the settings, click Back.
If you are satisfied with the settings, click Install to begin copying files.
Current Settings :
Folders :
Application D:\XVCS
Multi-user D:\Kodak\XVCS
Scan cache D:\Scan
Batch destination D:\Batches
Overwrite applications Yes
Overwrite setups Yes
Language(s) :
< Back
Install
Cancel

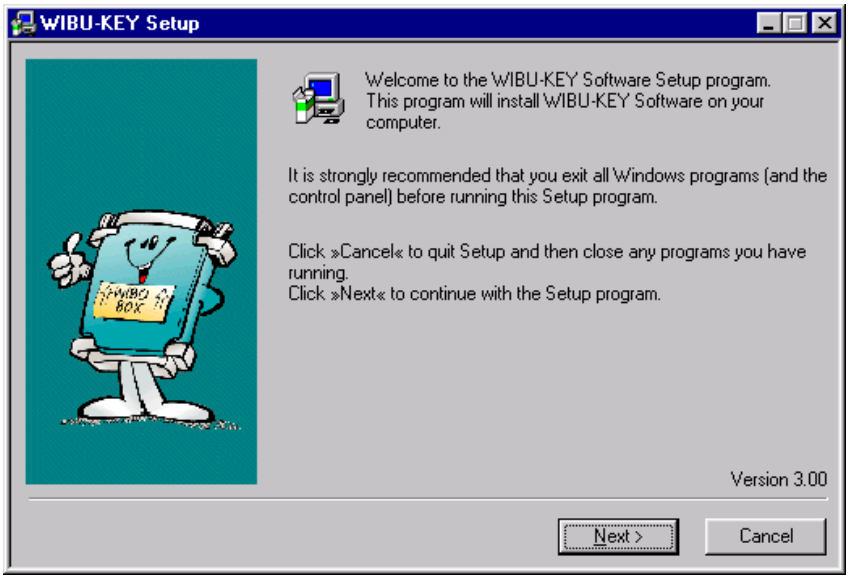
6. Select **Install** to complete the Capture Software installation program.

The files are copied and the Capture Software Setup Complete dialog box appears.


Capture Software Setup Complete
Setup has finished installing the Capture Software application on your computer.
View the README file
Launch the hardware key driver installation program
Click Finish to complete the Capture Software setup.
When finished, Setup will automatically launch the hardware key driver installation program.
Finish

7. To view the README file check the appropriate box and select **Finish** to complete the Capture Software installation setup.

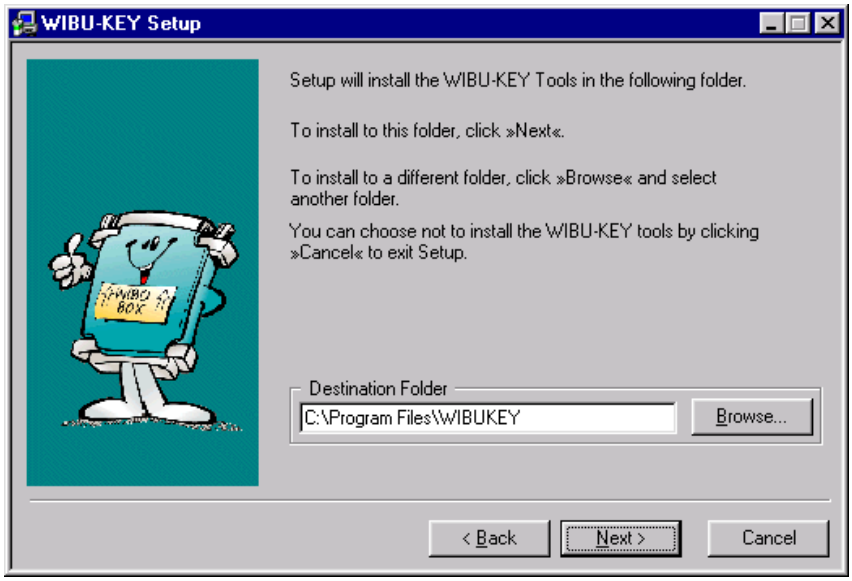
   To install the hardware key drivers (not necessary if you have an existing production installation of Capture Software), check the appropriate box. Capture Software will automatically launch the hardware key driver program.


WIBU-KEY Setup
Welcome to the WIBU-KEY Software Setup program.
This program will install WIBU-KEY Software on your computer.
It is strongly recommended that you exit all Windows programs (and the control panel) before running this Setup program.
Click »Cancel« to quit Setup and then close any programs you have running.
Click »Next« to continue with the Setup program.
Version 3.00
Next >
Cancel

   To install the WIBU-KEY Software Setup program, it is suggested that you exit all Windows programs (and the control panel).

8. Select **Next** to continue.

The WIBU-KEY Setup window appears.

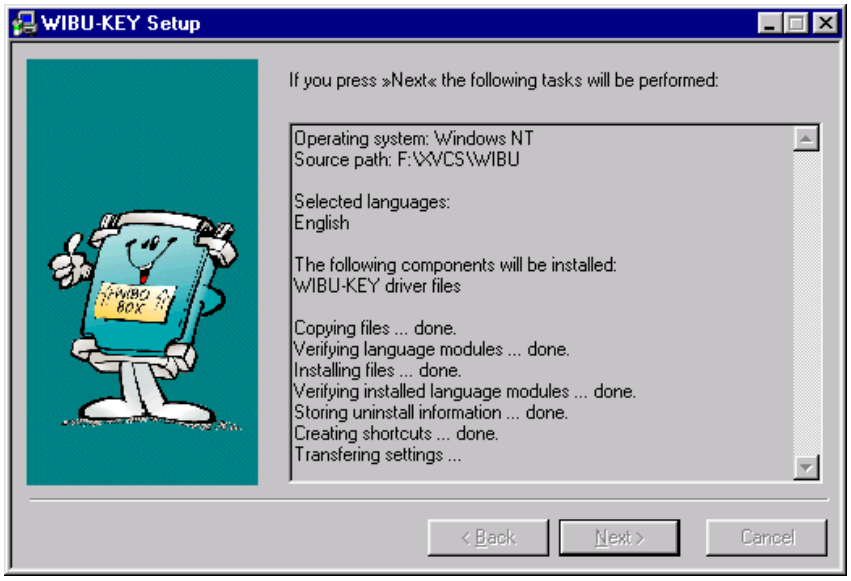

WIBU-KEY Setup
Setup will install the WIBU-KEY Tools in the following folder.
To install to this folder, click »Next«.
To install to a different folder, click »Browse« and select another folder.
You can choose not to install the WIBU-KEY tools by clicking »Cancel« to exit Setup.
Destination Folder
C:\Program Files\WIBUKEY
Browse...
< Back
Next >
Cancel

9. Select **Next** to continue.

   The following window appears.

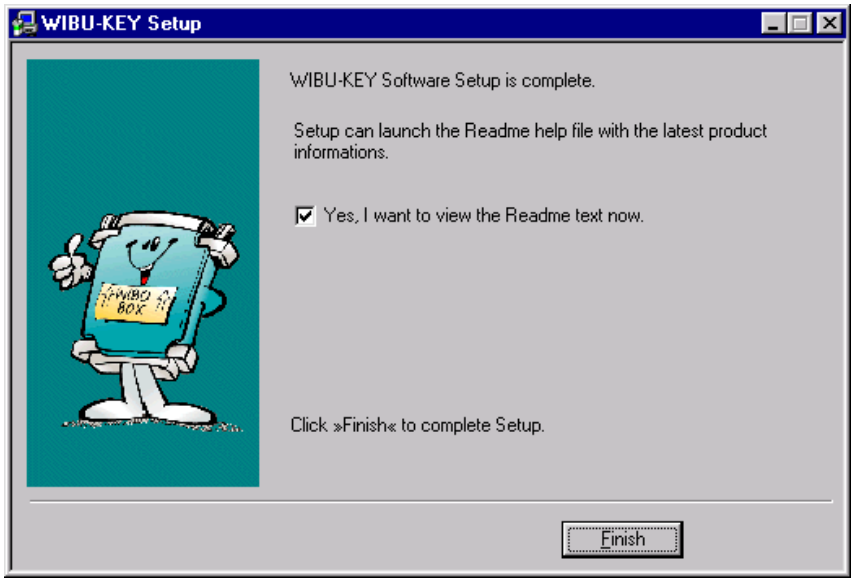
10. Select **Next** to install the files listed on the WIBU-KEY Setup window.

When the files are installed, the following window appears.



11. Select **Next**.

    The following window appears.


WIBU-KEY Setup
WIBU-KEY Software Setup is complete.
Setup can launch the Readme help file with the latest product informations.
Yes, I want to view the Readme text now.
Click »Finish« to complete Setup.
Finish

12. Select **Finish** to complete the WIBU-KEY setup.

NOTES: On Windows 98/ME systems, if WIBU version 3.00 is being installed for the first time, you must reboot your PC after the installation of Capture Software and WIBU are complete. Reboot your PC before running the Capture Software program.

WIBU version 3.00 Help requires an up-to-date version of Microsoft Internet Explorer. If you get an error message indicating an out-of-date HHCTRL.OCX file, you must upgrade Internet Explorer (to at least version 4.73.8252) before you can access WIBU Help.

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